

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel) : Relationship Between Phylogenetic of *Apium* and *Foeniculum* Plants from Central Java, Indonesia, and Their Secondary Metabolites Potency against COVID-19 Protease

Penulis Jurnal Ilmiah/ Jumlah penulis : Hermin Pancasakti Kusumaningrum, Rejeki Siti Ferniah, Siti Nur Jannah, Mufida Budi Kurniawati, Anis Afifah, Yoshua Mario Sumbodo, Salma Seftia Hanif, Tia Erfianti, Yuriza Eshananda/9 org

Status Pengusul : Penulis pertama

Identitas Jurnal Ilmiah :

- a. Nama Jurnal : Open Access Macedonian Journal of Medical Sciences (OAMJMS)
- b. Nomor ISSN : 18579655
- c. Volume, nomor, bulan, tahun : 10(A)
- d. Penerbit : Macedonia
- e. DOI artikel (jika ada) : <https://doi.org/10.3889/oamjms.2022.9852>
- f. Alamat web jurnal : <https://oamjms.eu/index.php/mjms/article/view/9852/7814>
- g. Terindeks di SCOPUS, Q3, SJR 2021 0.26, H Indeks 23

Kategori Publikasi Karya Ilmiah/buku (beri v pada kategori yang tepat) :

- ☒ Jurnal ilmiah internasional/Internasional bereputasi**
- ☐ Jurnal ilmiah nasional Terakreditasi
- ☐ Jurnal ilmiah nasional/nas. terindeks di DOAJ, CABI, Copernicus**
- ☐ Jurnal ilmiah nasional tidak terakreditasi

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Yang Diperoleh
	Internasional/ Internasional bereputasi ☒	Nasional Terakreditasi ☐	Nasional Tidak Terakreditasi ☐	
a. Kelengkapan unsur isi (10%)	3,00			3,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,00			8.93
c. Kecukupan dan kemutakhiran data /informasi dan metodologi (30%)	9,00			9,00
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	9,00			9,00
Total = (100%)	30,00			29.83
Nilai pengusul = 60% x 29.83 = 17.898				17.898

Catatan Penilaian oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi jurnal:** Penulisan sudah sesuai dengan "Author Guidelines" (Title, Abstract, Key words, Introduction, Materials and Methods, Results and Discussion, Conclusion, Acknowledgement, References). Naskah lengkap. Publikasi mempunyai format lengkap dan struktur penulisan baik. Substansi artikel sesuai bidang ilmu pengusul/penulis. Ada benang merah dalam struktur penulisannya antara Judul dengan IMRaDC (skor= 3.00)
- Ruang lingkup dan kedalaman pembahasan:** Substansi artikel cukup menunjukkan kesesuaian dengan bidang keilmuan penulis dan ruang lingkup jurnal (medicines). Pembahasan baik dan mendalam. Penggunaan rujukan dalam pembahasan baik (23 dari 44 buah rujukannya dilibatkan dalam proses membahas hasil). Artikel sudah menunjukkan keterbaruan topik yang dibahas. (skor= 8.93)
- Kecukupan dan kemutakhiran data/informasi dan metodologi:** Data-data hasil penelitian cukup menunjukkan ada kebaruan informasi. Terdapat 33 buah pustaka dari 44 yang kurang dari 10 th terakhir. Sebanyak 39 dari 44 pustaka berupa Jurnal (ini menunjukkan proses review dan kecukupan pustakanya memenuhi). Ada unsur novelty dalam metodologi yang memperlihatkan adanya inovasi dalam menghasilkan invensi dengan digunakannya paten sebagai salah satu rujukan (skor= 9.00)
- Kelengkapan unsur dan kualitas terbitan:** Jurnal ini tergolong Jurnal Internasional Bereputasi terindeks di Scopus/SJR=0,18 (2021)YQ4. Menggunakan Bahasa resmi PBB. Memiliki terbitan versi online <https://oamjms.eu/index.php/mjms/article/view/9852>. Alamat jurnal <https://oamjms.eu/index.php/mjms>. Dewan Redaksi (Editorial Board) adalah pakar di bidangnya yang berasal lebih dari 4 (empat) negara yaitu United States, China, UK, Poland, dll. Artikel ilmiah yang diterbitkan dalam 1 (satu) nomor terbitan penulisnya berasal lebih dari 2 (dua) negara yaitu Egypt, Kazakhstan, Indonesia, dll. ISSN: 18579655, H-Index 23, Coverage 2014-2021. Terbit semilankali dalam setahun. Proses review telah dilakukan dengan baik dan benar. (skor= 9.00)

Semarang, 27 April 2023

Reviewer I

Prof Dr. Endah Dwi Hastuti, MSI.

NIP. 196105051986032003

Unit kerja : Departemen Biologi Fakultas Sains dan Matematika Universitas Diponegoro Semarang

**LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH**

Judul Jurnal Ilmiah (Artikel) : Relationship Between Phylogenetic of *Apium* and *Foeniculum* Plants from Central Java, Indonesia, and Their Secondary Metabolites Potency against COVID-19 Protease

Penulis Jurnal Ilmiah/ Jumlah penulis : Hermin Pancasakti Kusumaningrum, Rejeki Siti Ferniah, Siti Nur Jannah, Mufida Budi Kurniawati, Anis Afifah, Yoshua Mario Sumbodo, Salma Seftia Hanif, Tia Erfianti, Yuriza Eshananda/9 org

Status Pengusul : Penulis pertama

Identitas Jurnal Ilmiah : a. Nama Jurnal : Open Access Macedonian Journal of Medical Sciences (OAMJMS)
b. Nomor ISSN : 18579655
c. Volume, nomor, bulan, tahun : 10(A)
d. Penerbit : Macedonia
e. DOI artikel (jika ada) : <https://doi.org/10.3889/oamjms.2022.9852>
f. Alamat web jurnal : <https://oamjms.eu/index.php/mjms/article/view/9852/7814>
g. Terindeks di SCOPUS, Q3, SJR 2021 0.26, H Indeks 23

Kategori Publikasi Karya Ilmiah/buku (beri v pada kategori yang tepat) : ☒ Jurnal ilmiah internasional/Internasional bereputasi**
☐ Jurnal ilmiah nasional Terakreditasi
☐ Jurnal ilmiah nasional/nas. terindeks di DOAJ, CABI, Copernicus**
☐ Jurnal ilmiah nasional tidak terakreditasi

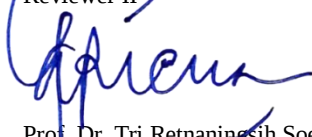
Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Yang Diperoleh
	Internasional/Internasional bereputasi ☒	Nasional Terakreditasi ☐	Nasional Tidak Terakreditasi ☐	
a. Kelengkapan unsur isi (10%)	3,00			3,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,00			8.75
c. Kecukupan dan kemutakhiran data /informasi dan metodologi (30%)	9,00			9,00
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	9,00			9,00
Total = (100%)	30,00			29.75
Nilai pengusul = 60% x 29.75 = 17.85				17.85

Catatan Penilaian oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi jurnal:** Penulisan sudah sesuai dengan "Author Guidelines" (Title, Abstract, Key words, Introduction, Materials and Methods, Results and Discussion, Conclusion, Acknowledgement, References). Naskah lengkap. Publikasi mempunyai format lengkap dan struktur penulisan baik. Substansi artikel sesuai bidang ilmu pengusul/penulis. Ada benang merah dalam struktur penulisannya antara Judul dengan IMRaDC (skor=3,00)
- Ruang lingkup dan kedalaman pembahasan:** Substansi artikel cukup menunjukkan kesesuaian dengan bidang keilmuan penulis dan ruang lingkup jurnal Open Access Macedonian Journal of Medical Sciences (medicines). Pembahasan baik dan mendalam. Penggunaan rujukan dalam pembahasan baik (23 dari 44 buah rujukannya dilibatkan dalam proses membahas hasil). Artikel sudah menunjukkan keterbaruan topik yang dibahas. (skor=8,75)
- Kecukupan dan kemutakhiran data/informasi dan metodologi:** Data-data hasil penelitian cukup menunjukkan ada kebaruan informasi. Terdapat 33 buah pustaka dari 44 yang kurang dari 10 th terakhir. Sebanyak 39 dari 44 pustaka berupa Jurnal (ini menunjukkan proses review dan kecukupan pustakanya memenuhi). Ada unsur novelty dalam metodologi yang memperlihatkan adanya inovasi dalam menghasilkan invensi dengan digunakannya paten sebagai salah satu rujukan (skor=9,00)
- Kelengkapan unsur dan kualitas terbitan:** Jurnal ini tergolong Jurnal Internasional Bereputasi terindeks di Scopus/SJR=0,18 (2021)/Q4. Menggunakan Bahasa resmi PBB. Memiliki terbitan versi online <https://oamjms.eu/index.php/mjms/article/view/9852>. Alamat jurnal <https://oamjms.eu/index.php/mjms>. Dewan Redaksi (Editorial Board) adalah pakar di bidangnya yang berasal lebih dari 4 (empat) negara yaitu United States, China, UK, Poland, dll. Artikel ilmiah yang diterbitkan dalam 1 (satu) nomor terbitan penulisnya berasal lebih dari 2 (dua) negara yaitu Egypt, Kazakhstan, Indonesia, dll. ISSN: 18579655, H-Index 23, Coverage 2014-2021. Terbit semilankali dalam setahun. Proses review telah dilakukan dengan baik dan benar. (skor=9,00)

Semarang, 28 April 2023
Reviewer II



Prof. Dr. Tri Retnaningsih Soeprbowati, M.App.Sc.
NIP. 196404291989032001

Unit kerja : Departemen Biologi Fakultas Sains dan Matematika Universitas Diponegoro Semarang

Aims and scope

Open Access Macedonian Journal of Medical Sciences (OAMJMS) [formerly known as Macedonian Journal of Medical Sciences] is a top-tier open access medical science journal published by the Scientific Foundation SPIROSKI, Rajko Zhinzifov No 48, 1000 Skopje, Republic of Macedonia. *OAMJMS* is an international, modern, general medical journal covering all areas in the medical sciences, from basic studies to large clinical trials and cost-effectiveness analyses. We publish mostly human studies that substantially enhance our understanding of disease epidemiology, etiology, and physiology; the development of prognostic and diagnostic technologies; trials that test the efficacy of specific interventions and those that compare different treatments; dental sciences; nursing; and systematic reviews. We aim to promote translation of basic research into clinical investigation, and of clinical evidence into practice. We publish occasional studies in animal models when they report outstanding research findings that are highly clinically relevant. Our audience is the international medical community as well as educators, policy makers, patient advocacy groups, and interested members of the public around the world. *OAMJMS* is published continuously online version.

The *Open Access Macedonian Journal of Medical Sciences (OAMJMS)* publishes Medical Informatics, Basic Science, Clinical Science, Case Report, Brief Communication, Public Health, Public Policy, Nursing, and Review Article from all fields of medicine and related fields.

This journal also publishes, continuously or occasionally, the bibliographies of the members of the Society, medical history, medical publications, thesis abstracts, book reviews, reports on meetings, information on future meetings, important events and dates, and various headings which contribute to the development of the corresponding scientific field.

[Make a Submission](#)

Submit your manuscript - Free of Charge

You can submit your manuscript in our Open Access journals **free of charge**:

[South East European Journal of Architecture and Design \(SEEJAD\)](#)

[South East European Journal of Cardiology \(SEEJCA\)](#)

[Home](#) / [Editorial Team](#)

Editorial Team

Journal Manager

Eli Djulejic, MD. Open Access Macedonian Journal of Medical Sciences, Belgrade, Serbia

elispiroska@yahoo.com

ORCID iD: <https://orcid.org/0000-0002-1736-9029>

Web of Science ResearcherID: [AAC-3225-2020](#)

Scopus Author ID: [33767574400](#)

Editor-in-Chief

[Mirko Zhivko Spiroski](#), MD, PhD. Scientific Foundation SPIROSKI, Rajko Zhinzifov No 48, 1000 Skopje, Republic of Macedonia

mspiroski@yahoo.com

ORCID iD: <https://orcid.org/0000-0001-5559-7981>

Web of Science ResearcherID: [F-7606-2012](#)

Scopus Author ID: [6602348069](#)

Section Editors (Deputy Editors-in-Chief)

Stoleski Sasho, MD, PhD. Institute for Occupational Health of Republic of Macedonia - Skopje, WHO Collaborating Center, GA2LEN Collaborating Center, II Makedonska brigada 43, 1000 Skopje, Republic of Macedonia

sstoleski@yahoo.com

ORCID iD: <https://orcid.org/0000-0003-1278-903X>

Web of Science ResearcherID: [B-2304-2015](#)

Scopus Author ID: [9943962300](#)

Slavica Hristomanova-Mitkovska, MD, MSc. Institute of Human Genetics, University Medical Center Göttingen, Heinrich-Düker-Weg 12, 37079 Göttingen, Germany

cacka_h@yahoo.com

[ORCID iD: https://orcid.org/0000-0002-7770-5055](https://orcid.org/0000-0002-7770-5055)

[Web of Science ResearcherID: G-8801-2012](#)

[Scopus Author ID: 33767823700](#)

Igor Spiroski, MD. University Clinic of Cardiology, Faculty of Medicine, Ss Cyril and Methodius University of Skopje, Skopje, Republic of Macedonia

ispiroski@gmail.com

[ORCID iD: https://orcid.org/0000-0002-3448-0685](https://orcid.org/0000-0002-3448-0685)

[Web of Science ResearcherID: AAA-5652-2020](#)

[Scopus Author ID: 23971606200](#)

Ksenija Bogoeva-Kostovska, MD, PhD. PHO Prof Bogoev, Skopje, Republic of Macedonia

ksenijabogoeva@gmail.com

Sinisha Stojanovski, MD, PhD. Medical Faculty, Saints Cyril and Methodius University in Skopje, Skopje, Republic of Macedonia

sinisa.stojanoski@hotmail.com

[ORCID iD: https://orcid.org/0000-0002-4967-2102](https://orcid.org/0000-0002-4967-2102)

[Web of Science ResearcherID: AFL-9514-2022](#)

[Scopus Author ID: 6504203064](#)

Filip Koneski, Doctor of Dental Medicine, MSc. University Clinic for Maxillofacial Surgery in Skopje, Ss. Cyril and Methodius University in Skopje, Faculty of Dental Medicine, Skopje, Republic of Macedonia

dr.koneski@gmail.com

[ORCID iD: https://orcid.org/0000-0003-2412-7594](https://orcid.org/0000-0003-2412-7594)

[Web of Science ResearcherID: J-9194-2019](#)

[Scopus Author ID: 57073856400](#)

Aleksandar Iliev, Doctor of Dental Medicine, PhD. Department of Maxillofacial Surgery, Faculty of Dentistry, The Saints Cyril and Methodius University of Skopje, Skopje, Republic of Macedonia

aleksandar.iliev@gmail.com

[ORCID iD: https://orcid.org/0000-0001-5348-9143](https://orcid.org/0000-0001-5348-9143)

[Web of Science ResearcherID: ACV-7553-2022](#)

[Scopus Author ID: 57021392000](#)

Layout Editor and Electronic Publishing

Ivo Spiroski, Eng, MSc. Scientific Foundation SPIROSKI, Rajko Zhinzifov No 48, 1000 Skopje, Republic of Macedonia

ivospiroski@gmail.com

ORCID iD: <https://orcid.org/0000-0003-4518-2138>

[Web of Science ResearcherID: F-2799-2014](#)

Prtoduction Editor

Copyeditor

Sinjore, India

Evidence Based Medicine

Prof. Dr. Katarina Stavric, Children Hospital Skopje, Macedonia, Vodnjanska 17, University "Ss Cyril and Methodius", Skopje, Republic of Macedonia

Editorial Board

DDS, MS, PhD, Associate Professor Nikola Angelov, Director of the Pre-Doctoral Periodontics Clinic, Loma Linda University School of Dentistry, Department of Periodontics. Loma Linda, CA, 92350, United States

Assist. Prof. Dr. Ramush Bejiqi, University Clinical Centre of Kosovo, Paediatric Clinic, **Albania**

Prof. Semra ÄEavaljuga, Department of Epidemiology and Biostatistics, Faculty of Medicine, Sarajevo, Bosnia and Herzegovina

MD Pei-Yi Chu, Diagnostic and research pathologist, Department of Surgical Pathology, Changhua Christian Hospital, Taiwan. Address: 135 Nan-Shiao Street, Changhua 500-06,, Taiwan, Province of China

MD, PhD Ivo Donkov, Staff Urologist, Lincoln County Hospital, **United Kingdom**

MD, PhD Andrew J. Dwork, Departments of Pathology and Cell Biology and Psychiatry, College of Physicians and Surgeons of Columbia University; Division of Molecular Imaging and

Neuropathology, New York State Psychiatric Institute, Unit 62, 722 West 168th Street, New York, NY 10032, United States

Adriana Galan, Department of Health Programmes and Health Promotion, Institute of Public Health, Bucharest, [Romania](#)

Prof. Tania Santos Giani, Estacio de Sa University, in Health Sciences, [Brazil](#)

PhD Iva Ivanovska, Harvard Medical School, Department of Genetics, 77 Avenue Louis Pasteur, NRB room 239, Boston, MA 02115, United States

MD, PhD Jerzy JabÅecki, Associate Professor, Division of General Surgery St. Jadwiga of Silesia Hospital, Trzebnica; Head, Subdepartment of Hand Surgery an Replantation St Jadwiga of Silesia Hospital, Trzebnica; Professor, Department of Public Health, State Higher Professional Medical School, Opole, Poland. 55-100 Trzebnica, ul. Prusicka 53, Poland

MD Mehrdad Jalalian Hosseini, Khorasan-e Razavi Blood Center, Mashhad, Iran, Islamic Republic of

PhD Radka Kaneva, Department of Medical Chemistry and Biochemistry, Medical University - Sofia, Bulgaria

Prof. Dr. Kostandina Leonida Korneti-Pekevskaa, Ss Cyril and Methodius University of Skopje, Faculty of Medicine, Skopje, Republic of Macedonia

MD, PhD Branko Malenica, Department of Immunology, Clinical Hospital Center Zagreb, Zagreb University School of Medicine, Zagreb, Croatia

Prof. Dr. Elida Mitevskaa, Institute of Histology and Embriology, Faculty of Medicine, Ss Cyril and Methodius University of Skopje, Skopje, Republic of Macedonia

MD, PhD Marija Mostarica-StojkoviÄ, Institute of Microbiology and Immunology, University of Belgrade School of Medicine, Belgrade, Serbia

PhD Vesna Nikolova-Krstevskii, Harvard Institutes of Medicine, HIM-201, 4 Blackfan Circle, Boston, MA, 02134, United States

Prof. Dr. Nikola Panovski, Institute of Microbiology and Parasitology, Faculty of Medicine, Skopje, Republic of Macedonia

MD, BIDMC Iva Petkovskaa, Beth Israel Deaconess Medical CenterRadiology W CC - 3 330 Brookline Ave. Boston, MA 02215, United States

Prof. Dr. Gordana Petrusevskaa, Institute of Pathologyy, Medical Faculty, University of “Ss. Cyril and Methodius” Skopje, Republic of Macedonia

Prof. Enver Roshi, Dean of Faculty of Public Health, Medical University of Tirane, Chief of Epidemiological Observatory, National Institute of Public Health. Address: Rruga e Dibrës, Str. 371, Tirana, Albania

MD, PhD Gorazd B. Rosoklija, Professor at Columbia University and member of the Macedonian Academy of Sciences and Arts, United States

Prof. Dr. Aleksandar Sikole, University Clinic for Nephrology, Faculty of Medicine, Ss Cyril and Methodius University of Skopje, Skopje, Republic of Macedonia

MD, FESC Gianfranco Sinagra, Department of Cardiology, “Ospedali Riuniti” and University of Trieste, Ospedale Cattinara “ Strada di Fiume, 447, 34149 Trieste, Italy

MD, PhD Rumen Stefanov, Information Centre for Rare Diseases and Orphan Drugs (ICRDOD), Bulgaria; Department of Social Medicine, Medical University of Plovdiv, Bulgaria

Prof. Dr. Vesna Velikj Stefanovska, Department of Epidemiology and Biostatistics with Medical Informatics, Medical Faculty, UKIM, Skopje, Republic of Macedonia

MD, MBA Milenko Tanasijevic, Director, Clinical Laboratories Division and Clinical Program Development, Pathology Department, Brigham and Women's Hospital, Dana Farber Cancer Institute, Associate Professor of Pathology, Harvard Medical School, United States

MD, FRCPC Kiril Trpkov, Associate Professor, University of Calgary, Department of Pathology and Laboratory Medicine, Calgary Laboratory Services. 7007 14 st, Calgary SW, Canada

MD, PhD Igor Tulevski, Department of Cardiology, Academic Medical Center, Amsterdam, 1100 DD, T 020 707 2930; F 020 707 2931, Netherlands

Past Members of Editorial Team

Prof. Dr Doncho Donev, Institute of Social Medicine, Medical Faculty, Ss Cyril and Methodius University of Skopje, Skopje, Republic of Macedonia

Prof. Dr Olivera Stojceva Taneva, University Clinic of Nephrology, Republic of Macedonia

Prof. Dr Petar Miloshevski, from 2008-2014, Institute of Preclinical and Clinical Pharmacology with Toxicology, Faculty of Medicine, Skopje, Republic of Macedonia

Prof. Dr Sonja Topuzovska, Institute of Medical and Experimental Biochemistry, Faculty of Medicine, Skopje, Republic of Macedonia

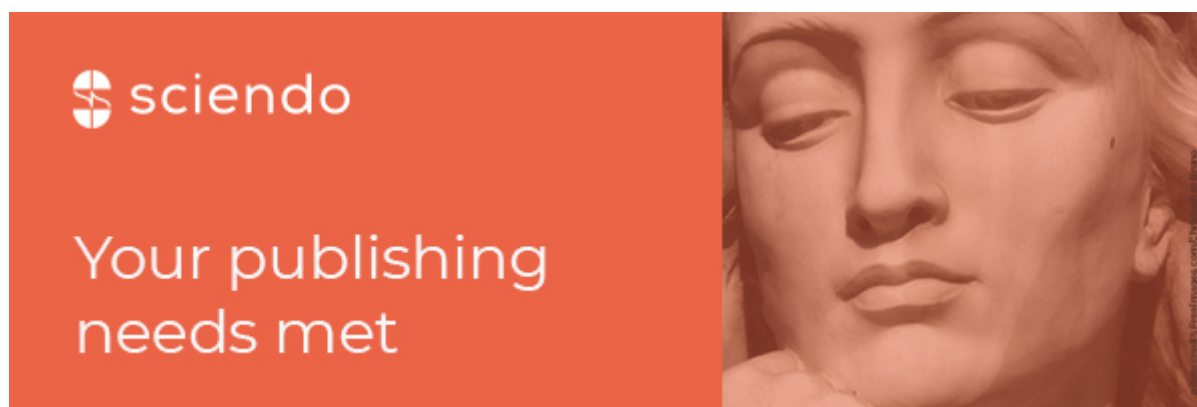
Prof. Dr. Aleksandar Dimovski, Institute of Pharmaceutical Chemistry, Faculty of Pharmacy,
University "Ss Kiril and Metodij", Skopje, Republic of Macedonia

PhD Mirko Trajkovski, ETH Zurich, Wolfgang-Pauli-Str. 16/HPT D57, 8093 Zurich-CH, Switzerland

PhD Zoran Zdravkovski, Institute of Chemistry, Faculty of Natural Sciences and Mathematics, Ss Cyril
and Methodius University of Skopje, Skopje, Republic of Macedonia

[Make a Submission](#)

Co-publishing



Submit your manuscript - Free of Charge

You can submit your manuscript in our Open Access journals **free of charge**:

[South East European Journal of Architecture and Design \(SEEJAD\)](#)

[South East European Journal of Cardiology \(SEEJCA\)](#)

[South East European Journal of Immunology \(SEEJIM\)](#)

[South East European Journal of Human Genetics \(SEEJHG\)](#)

Information

[For Readers](#)

[For Authors](#)

Vol. 10 No. A (2022): A - Basic Sciences

Published: 2022-01-01

Genetics**Insulin-like Growth Factor-2 Binding Protein-2 Gene Polymorphisms in Iraqi Patients with Type 2 Diabetes Mellitus**

Zubaida Falih, Bayadir Ali Wannas Khodair, Noaman Ibadi Mohammed, Tahseen Kadhem Mohammed (Author)
1178-1183

**Phylogenetic Tree 16S rRNA Gene of Acinetobacter soli Isolated from the Prepuce of Aceh Cattle**

Masda Admi, Darmawi Darmawi, Teuku Reza Ferasyi, Dasrul Dasrul (Author)
1487-1491

**Effect of SHBG Polymorphism on the Levels of Bioavailable Testosterone and Lipid Metabolism in Older Men of the Kazakh Population**

Merkhat Akkaliyev, Nurlan Aukenov, Meruyert Massabayeva, Bakytbek Apsalikov, Saule Rakhzyhanova, Muratkhan Kuderbaev, Nariman Sadykov (Author)
1315-1320

**Association between VEGF Gene Polymorphism -634G>C and Risk of Colorectal Cancer**

Asri Tambunan, Gontar Alamsyah Siregar, Masrul Lubis (Author)
409-414

Phylogenetic Analysis of HPV16 Isolated from Women with Cervical Cancer Based on L2 Gene Partial Sequence in the Province of Dhi-Qar, Iraq

Abduladheem Turki Jalil, Aleksandr Karevskiy (Author)
1074-1078

**Type 2 Deiodinase A/G (Thr92Ala) Polymorphism and Circulating Thyroid Hormone Level of Childbearing Age Women in Area Replete with Iodine Deficiency Disorders**

Agus Wibowo, Taufiq Hidayat, Sri Nuryani Wahyuningrum (Author)
1653-1657

**Role of Transcription Factor 7 like 2 and Silent Information Regulator 1 Genes in the Development of Cardiovascular Complications in a Group of Egyptian Patients with Chronic Kidney Disease**

Doaa Mamdouh, Hanan Shawky, Nihal Moustafa El-Assaly, Samia El-Shishtawy, Nevine Sherif, Amna Metwaly, Asmaa Mohamed Fteah (Author)
16-24

**Impact of TNFAIP3 Genetic Polymorphisms on Primary Immune Thrombocytopenia in Egyptian Adults: Case-control Study**

Mohamed Zanaty, Osama Korayem, Mohamed H. Meabed, Doaa El Demerdash, Wafaa M. Abdelghany (Author)
525-530

**Genetic Variation of the CYP2C9 Genetic of Minangkabau as a Predictor of Side Effect Providing Indications of Non-steroidal Anti-inflammatory Drugs**

Yusticia Katar, Ely Usman, Gestina Aliska (Author)
548-551

**Single Nucleotide Polymorphism of Dectin-1 Gene Associates with Atopic Dermatitis in Children**

Olexandr Volosovets, Sergii Kryvopustov, Olena Mozyrska, Sergii Goncharov, Anna Kupkina, Oksana Iemets, Victor Dosenko (Author)
1295-1299

**Genetic Analysis of TPOX, CSF1PO, D3S1358, D8S1179, vWA, D5S818, and TH01 Short Tandem Repeats Loci in Nias Population, Indonesia**

Citra Manela, Taufik Hidayat, Rika Susanti, Noverika Windasari (Author)
1089-1092

**Association of SCN1A Gene Polymorphism with Phenytoin Response in Patients with Epilepsy: Relevance of Stratification by the History of Febrile Seizure**

Atitya Fithri Khairani, Sri Sutarni, Eti Nurwening Sholikhah, Rusdy Ghazali Malueka, Audiza Luthffia, Amelia Nur Vidyanti (Author)
1676-1681

**Vitamin D Receptor Gene ApaI and TaqI Polymorphisms in Type 2 Diabetes among Saudi Population**

Fathy M. Elfaskhany, Mashael S. Alqahtani, Ayman M. A. Elguindy, Magdi A. El-Damarawi (Author)
1520-1524

**Association of Interleukin-6 rs1800795 and Interleukin-1A rs1800587 Genetic Variants and Their Serum Levels with the Risk of Endometrial Carcinoma in Egyptian Women**

Asmaa Ramadan, Reda Hemida, Noha M. Mesbah, Dina Abo-Elmatty, Eman Mehanna (Author)
1456-1462

**Identification of NPHS1 Genetic Variations in Cohort of Egyptian Patients with Congenital Nephrotic Syndrome**

Amira Samy, Rasha Elkaffas, Fatina Fadel, Nehad Mosaad, Hanan Madani (Author)
84-89

**Relationship of Bactericidal Permeability Increasing Protein (BPI) Polymorphysm rs1341023, rs5743507, Tumor Necrosis Factor Alpha (TNF-α) rs361525, rs1800629 with Neonatal Sepsis**

Afdal Afdal, Jamsari Jamsari, Yanwirasti Yanwirasti, Prambudi Rukmono (Author)
1038-1041

**Role of MicroRNAs in the Development of Chronic Liver Disease in Hepatitis Virus-Infected Egyptian Population**

Marwa Hassan, Eman El-Ahwany, Mohamed Elzallat, Ali Abdel Rahim, Hoda Abu-Taleb, Yosry Abdelrahman, Moataz Hassanein (Author)
1555-1559

**Relationship Between Phylogenetic of Apium and Foeniculum Plants from Central Java, Indonesia, and Their Secondary Metabolites Potency against COVID-19 Protease**

Hermin Pancasakti Kusumaningrum, Rejeki Siti Ferniah, Siti Nur Jannah, Mufida Budi Kurniawati, Anis Afifah, Yoshua Mario Sumbodo, Salma Seftia Hanif, Tia Erfianti, Yuriza Eshananda (Author)
1234-1241

**Genetic Study of Chemokine Ligand 1 in Colorectal Carcinoma using Quantitative Real-Time PCR**

Athraa Alshimmerry, Dalia Amer Khudhair, Roaa Salih Mahdi (Author)
656-660

**Relationship between Gene Polymorphism of Vascular Endothelial Growth Factor (VEGF) rs699947 with VEGF and Matrix Metalloproteinase-14 Protein Levels in Patient with Diabetic Foot Ulcer**

Ivan Kurniawan Bassar, Jamsari Jamsari, Elyza Nasrul, Humaryanto Humaryanto (Author)
720-724

**Perilipin Genetic Variation Correlated with Obesity and Lipid Profile in Metabolic Syndrome**

Pramudji Hastuti, Rosdiana Mus, Anggelia Puspasari, Citra Maharani, Ika Setyawati (Author)
782-786

**Biochemistry****Peculiarities of Action of Catecholamines and their Metabolites in the Regulation of Cardiomyocyte Enzymes**

Salavat Tapbergenov, Bakytbek Sovetov, Ynkar Kairkhanova, Zhanargul Smailova (Author)
426-431



The Effects of High Fat Diet on the Liver of the White Rat Model Obesity

Rusdiana Rusdiana, Siti Syarifah, Yunita Sari Pane, Sry Suryani Widjaja, Dwi Rita Anggraini (Author)
709-714



Physicochemical Properties of Milkfish Gelatin-Natural Starch Composite

Isriany Ismail, M. Natsir Djide, Marianti A. Manggau, Latifah Rahman (Author)
540-547



Fruit and Vegetable Effect Changes in Blood Sugar Levels and Food Glycemic Index

Gurid Pramintarto Eko Mulyo, Zidnie Silmi Kaffah, Mira Mutiyani, Angreni Ayuhasuti (Author)
38-44



Moringa oleifera Prevents In vivo Carbon Tetrachloride-Induced Liver Fibrosis through Targeting Hepatic Stellate Cells

Supriono Supriono, Handono Kalim, Nur Permatasari, Hani Susianti (Author)
824-832



Isolation and Molecular Identification of Endophytic Mold Schizophillum commune in Red Dahlia (Dahlia sp. L) Tuber as Producing Inulinases

Sunarti Sunarti, Chrismis Novalinda Ginting, Sahna Ferdinand Ginting (Author)
49-55



Potential of Nile Tilapia (Oreochromis niloticus) as an Alternative Complementary Food Ingredient for Stunting Children

Nuryanto Nuryanto, Diana Nur Afifah, Mohammad Sulchan, Pujoyuwono Martosuyono, Kholifiyah Ihsani, Permata Laila Kurniastuti (Author)
1170-1177



Prevalence of Vitamin D Deficiency and Insufficiency in Kosovo Population

Zana Baruti-Gafurri, Ardita Kafexholli, Bardha Dervishi, Rilind Sylaj, Krenare Shabani, Dijon Musliu (Author)
1-6



Assem K. Okassova, Valeriy Britko, Didar B. Okassov, Yelena S. Tatina, Akerke I. Tolegenova, Kuttykyz N. Kuvatbaeva, Gulzhan T. Kaliyeva, Madina Zhunussova, Nazira Duzbaeva (Author)
236-239



Potential Combinations of Pasak Bumi (Eurycoma longifolia Jack), Docosahexaenoic Acid, and Seluang Fish (Rasbora spp.) to Improving Oxidative Stress of Rats (Rattus norvegicus) Brain Undernutrition

Didik Dwi Sanyoto, Meitria Syahadatina Noor, Triawanti Triawanti (Author)
25-32



Establishing a Reference Interval for an Estimate of Peripheral Insulin Resistance in a Group of Iraqi People

Amjad Al-Naemi (Author)
192-197



Stability Evaluation of Caulerpa racemosa as Novel Halal Capsule-Shell

Happy Kurnia Permatasari, Fahrul Nurkolis, Hero Barazani, Piko Satria, Eka Nugraha Prima, Panca Aghniaa Ruuhu Alfaen, Naura Luviezka Choirunnisa, Dian Aruni Kumalawati, Jumailatus Solihah, Dias Idha Pramesti, Alexander Bolang (Author)
1184-1187



Homocysteine Levels and Osteoporotic Fracture in a Population Aged 55 Years Over in Medan District Indonesia

Sry Suryani Widjaja, Rusdiana Rusdiana, Vito Filbert Jayalie (Author)
45-48



Evaluation of Peronema canescens Leaves Extract: Fourier Transform Infrared Analysis, Total Phenolic and Flavonoid Content, Antioxidant Capacity, and Radical Scavenger Activity

Tonny Maigoda, Judiono Judiono, Dicki Bakhtiar Purkon, Ayu Nala El Muna Haerussana, Gurid Pramintarto Eko Mulyo (Author)
117-124



Anti-Mitoticpotential Identification of Nyale (Eunice sp.) in The Tourism Area of Kuta Beach, Lombok Island, West Nusa Tenggara

TGF-1 mRNA, AFP-L3, and Annexin II in the Early and Late Detection of Hepatocellular Carcinoma: The Diagnostic Value

Eman Youssef , Nashwa El-Khouly, Yahia Abdullah Elzahrani , Rehab M. E. Tash , Eman A. Khalifa, Eman S. M. Bayourmy , Mona Khalil, Awatif E. Edreis, Fatma Saffeyeldin Mohamed, Aml E. Abdou, Nora Seliem, Mahmoud Sofy, Sara Fakhrelden, Sohaila M. H. Marmoush, Ghada F. Elmohaseb, Amal A. Elhosary (Author)
15-22



A Physiological Study to Evaluate Liver Function in Male and Female Patients Infected with COVID-19 Virus in Najaf City

Hanan Diekan Abbas , Sajjad Jubair Kadhim (Author)
1-4



Physicochemical Properties and Nutrient Content of Tempe Flour Enriched Eel Flour

Iskari Ngadiarti, Fahrul Nurkolis, Matthew Nathaniel Handoko, Fachruddin Perdana, Muntikah Muntikah, Nindy Sabrina, Hans Kristian, Jeremy Eleazar Roring, Mrinal Samtiya, Son Radu (Author)
552-556



Essential Oil Constituents and Pharmacognostic Evaluation of Java Citronella (Cymbopogon winterianus) stem from Bandung, West Java, Indonesia

Ayu Nala El Muna Haerussana, Haura Fatona Chairunnisa (Author)
1338-1346



Antioxidant and Antibacterial Activity of Various Fractions of Heterotrigona itama Propolis Found in Kutai Kartanegara

Paula Mariana Kustiawan, Abdul Aziz, Veggy Nadia Yuliawan (Author)
531-534



Effects of Ethanol Extract of Propolis on Repair Optic Nerve Damage in a Rat Model for Diabetes Mellitus (Study of MDA, CRP, Caspase-3, and TGF-β Expression and Histopathological Changes on Optic Nerve Damage)

Nur Shani Meida, Bambang Purwanto, Brian Wasita, Senyum Indrakila, Soetrisno Soetrisno, Eti Poncorini, Risyia Cilmiaty (Author)
444-449



Study of Lipid Peroxidation-antioxidant Defense Systems in Rats under Radiation Exposure

Putu Dedy Arjita, Rozikin Rozikin, Gede Angga Adnyana, Ayu Anulus, Sukandriani Utami, Aris Widiyanto, Santy Irene Putri (Author)
1285-1289



Saponins and Tannin Levels in Chayote, Mung Beans, and Biscuits from Chayote and Mung Beans

Jamaludin M. Sakung, Sitti Rahmawati, Sri Hastuti Pulukadang, Afadil Afadil (Author)
1355-1358



Histology

Histopathological Analysis of Faunus Ater Ovotestis in Bale and Reuleueng Rivers, Aceh Besar Regency, Aceh Province Indonesia

Ervina Dewi, Rahmi Agustina, Muhammad Ali Sarong, Fredinan Yulinda, Suhendrayatna Suhendrayatna (Author)
1273-1277



Potential Protective Effect of Zingiber officinale in Comparison to Rosuvastatin on High-fat diet-induced Non-alcoholic Fatty Liver Disease in Rats

Osama Ibrahim Ramadan, Mohamed Nasr, Osama M.M. Abd El-Hay, Abdulkarim Hasan, Ezz-Eldin E. Abd-Allah, Mohammed E. Mahmoud, Fatma M. Abd-Allah, Tamer M. M. Abuamara, Mohammed G. A. Hablas, Moaaz M. Y. Awad, Mahmoud Diab, Ahmed M. Taha, Mohamed K. Radwan, Nancy H. Abulkhair, Alsayed A. Abdel-Hady (Author)
916-923



Omega-3 and Vitamin E Supplementation Effect on Reactive Oxygen Species and Placental Vascular Endothelial Growth Factor: Pre-eclampsia Model

Arni Amir, Eryati Darwin (Author)
1387-1391



Histological and Radiographical Evaluation of Deciduous Teeth during Shedding (Human and Experimental Study)

Mai Badreldin Helal (Author)
125-130



Physiology

The influence of speed and strength abilities on the overall endurance of children aged 13-14 years with different typologies

Georgiy Polevoy (Author)
740-743



Effects of Aqueous Ginger Extract on Some Hematology Parameters, Serum Iron, Ferritin, and Total Iron Binding Capacity in Male Mice (Mus musculus L.)

Mustafa Abd Almajeed, Nawal Khalil Ibrahim (Author)
902-905



The Effect of Physical Activity during Pregnancy on Childbirth

Raya Al Hassan, Ria Rashid Ali, Mariam Saad Kaiss Alsheikh (Author)
475-480



Islamic Fasting Models but not Only Ramadan Improved Metabolic Parameter in High-Fat-High-Fructose-Induced Rats

Naufal Arif Ismail, Miranti Dewi Pramaningtyas, Titis Nurmasitoh (Author)
793-799



The Effect of Achievement Motivation and Self-Regulated Learning on Student Learning Behavior in the Time of Online Learning in Indonesia

Juliana Hindradjat, Imam Hambali, Adi Atmoko, P. H. Livana (Author)
262-272



The Effect of Green Coffee on Blood Pressure, Liver and Kidney Functions in Obese Model Rats

Yusni Yusni, Hanifah Yusuf (Author)
346-351



Positive Behavior Values to Improve Student Self-Efficacy: A Case Study in Islamic Boarding Schools

Najlatun Naqiyah (Author)
1577-1584

Assessment of Osteogenesis Enhancement in Rats Using Bone Densitometry: An In Vivo Study

Manar Abd Alrazaq Hassan, Asmaa A. Ajwad (Author)
1268-1272



Nutritional Status Associated to Red Cell Distribution Width, Length of Stay, and Clinical Outcome patient with Chronic Kidney Diseases

Layle Rahmiyanti, Haerani Rasyid, Nurpudji Astuti Taslim, Suryani As'ad, Agussalim Bukhari, Aminuddin Aminuddin (Author)
572-578



Impact of Targeting β3 Receptor on Male Sex Hormonal Balance

Abdulla Ahmad, Mohammed Saarti, Mohammed Younes (Author)
1257-1261



Electronic and Conventional Cigarette Exposure Aggravate Metabolic Parameters in High-Fat Diet-Induced Rats

Naufal Arif Ismail, Tsavira Nabila, Anastasya Syam Ramadhani, Dwi Nur Ahsani (Author)
841-847



Nutritional Intake Education by Peers, Nutritionists, and Combinations to Changes in Nutritional Status in Adolescent Girl in School

Irine Christiany, Adin Mu'afiro, Kiaonarni Ongko Waluyo, Suparji Suparji (Author)
867-871



Immunology

The Serological Examination of Immunoglobulin A Anti-Early Antigen of Epstein-Barr Virus (Anti-EA EBV IgA) in the Nias Tribe Nasopharyngeal Cancer Patients

Hana Isal Salina Ginting, Farhat Farhat, Mutiara Indah Sari (Author)
1116-1120



In Silico Approach for Pro-inflammatory Protein Interleukin 1β and Interleukin-1 Receptor Antagonist Protein Docking as Potential Therapy for COVID-19 Disease



The Significance of Height on Median and Ulnar Nerves Conduction Parameters in Male Subjects

Nawrass Jassim, Hayder Abdulateef, Khalida I. Noel (Author)
245-247



The Role of Banana (Musa balbisiana Colla) Peel Floss as Functional Food Matrix to Alleviate Chronic Stress

Andreanyta Meliala, Paramita Narwidina, Irwan Supriyanto, Yogi Tri Sumarno, Yanasta Yudo Pratama, Rian Damayanti (Author)
1608-1616



Morning Exercise is More Effective in Ameliorating Oxidative Stress in Patients with Type 2 Diabetes Mellitus

Sinu Jusup, Muhsin Douwes, Bambang Purwanto, Dono Indarto, Hartono Hartono, Eti Poncorini Pamungkasari (Author)
1499-1504



The Effectiveness of Zhu Scalp Acupuncture and Body Acupuncture Therapy Methods on Increasing Intellectual Quotients and Emotional Quotients in Pre-School Children

Maria Christiyawati, Estuningsih Estuningsih (Author)
376-382



Effects of Red-Fleshed Pitaya (Selenicereus polyrhizus) Ingestion after Strenuous Exercise on Creatine Kinase and Mitochondrial Function in Rat Muscle Cells

Gusbakti Rusip, Syafrudin Ilyas, I Nyoman Lister, Chrismis Novalinda Ginting, Ade Indra Mukti, Ermi Girsang (Author)
680-684



Autophagy and Oxidative Balance Mediate the Effect of Carvedilol and Glibenclamide in a Rat Model of Renal Ischemia-Reperfusion Injury

Amany Elfakhrany, Reda Abo Elfath Ahmed Abo-Elsoud, Heba Mohamed Abd El Kareem, Rehab Monir Samaka, Safa Reyad Elfiky (Author)
1402-1410



Wahyu Widowati, Kusworini Handono, Marlina Marlina, Ika Adhani Sholihah, Diana Krisanti Jasaputra, Teresa Liliana Wargasetia, Mawar Subangkit, Ahmad Faried, Ermi Girsang, I Nyoman Ehrich Lister, Chrismis Novalinda Ginting, Ita Margaretha Nainggolan, Rizal Rizal, Hanna Sari Widya Kusuma, Linda Chiuman (Author)
65-70



The Mango's Mistletoe Leaves Extract Ameliorates Lupus by Inhibiting the Anti-dsDNA Antibody Production, the Percentages of CD8+CD28- and CD4+CD28- T Cells

Kusworini Handono, Sri Sunarti, Mirza Zaka Pratama, Saiful Hidayat, Muhammad Badrus Solikhin, Inmas Andi Sermoati, Maria Gabriela Yuniati (Author)
248-255



Influence of Industrial Factors on Cytomorphological Indicators of Phagocytic Cells

Gulmira Tussupbekova, Anar Rakhmetova, Gulnaziya Alshynbekova, Ryszhana Bakirova, Y. Kuandykov , Madina Molsadykkyzy, Balgyn Amanbay, Asan Gulmira Kudaibergenkyzy, Aizhan Beisenova, Aizhan Moldakaryzova (Author)
1207-1210



In Vitro and In Vivo Study of Pandanus conoideus Oil Extract in the Maturation of Mouse Peritoneal Macrophages

Elvan Wiyarta, Kusmardi Kusmardi, Aryo Tedjo, Hadi Sunaryo (Author)
419-425



The Role of Angiopoietin-2 on Plasma Leakage in the Critical Phase and Convalescence of Dengue Virus Infection in Children

Rinang Mariko, Nice Rachmawati, Fitrisia Amelin, Sri Rezeki Hadinegoro (Author)
675-679



Relationship of Anti-interleukin-6 Receptor Antibody to Interleukin-6 Level and Inducible Nitrite Oxide Levels in Peripheral Nerve Injury in Chronic Constriction Injury-Induced Rats: A Case-Control Study in Indonesia

Riki Sukiandra, Eti Yerizel, Yuliarni Syafrita, Eryati Darwin (Author)
1-5



Epidermal Stem Cell in Wound Healing of Gliricidia sepium Leaves from Indonesia and the Philippines in Rats (Rattus norvegicus)

Aulanni'am Aulanni'am, Ricadonna Raissa, Wibi Riawan, Dyah Kinasih Wuragil, Fajar Shodiq Permata, Ma Asuncion Guliang Beltran (Author)
1143-1150



Role of Exosomes Derived from Secretome Human Umbilical Vein Endothelial Cells (Exo-HUVEC) as Anti-Apoptotic, Anti-Oxidant, and Increasing Fibroblast Migration in Photoaging Skin Models

Endra Yustin Ellistasari, Harijono Kariosentono, Bambang Purwanto, Brian Wasita, Risya Cilmiaty Arief Riswiyant, Eti Poncorini Pamungkasari, Soetrisno Soetrisno (Author)
1193-1199



The Severity of COVID-19 and its Correlation with Inflammation Biomarkers

Beni Indra, Nur Indrawaty Lipoeto, Hardisman Hardisman, Andani Eka Putra, Djong Hon Tjong, Sukri Rahman, Elfira Yusri, Muhammad Ridho Bilhaq, Yusan Pratama, Yudha Risman (Author)
911-915



Mesenchymal Stem Cells for the Treatment of Acetic Acid-Induced Ulcerative Colitis in Rats

Thoria Ahmed Omar, Eman Sweed, Dina Sweed, Rawhia Hassan Eledel, Dalia Hosny Abou-Elela, Gehad Hikail (Author)
1478-1486



The Ameliorating Effects of MSCs in Controlling Treg-mediated B-Cell Depletion by Indoleamine 2, 3-dioxygenase Induction in PBMC of SLE Patients

Yan Wisnu Prajoko, Agung Putra, Bayu Tirta Dirja, Adi Muradi Muhar, Nur Dina Amalina (Author)
6-11



Most Cell Essential Roles: Will it be a Novel Tool for Differentiating the Severity of Pediatric Appendicitis?

Hery Poerwosusanta, Gunadi Gunadi, Pricilia Gunawan, Aditya Rifqi Fauzi, Angga Setya Budi, Adam Rahardiyani Poerwosusanta, Elvira Esmeralda, Donny Aditia, Ika Kustiyah Oktavianti, Nia Kania, Zairin Noor (Author)
812-816



The Combination of Mesenchymal Stem Cells and Bovine Colostrum in Reducing α-SMA Expression and NLR Levels in Wistar Rats After 50% Fibrotic Liver Resection

Michael Mawi Hartanto, Yan Wisnu Prajoko, Agung Putra, Nur Dina Amalina (Author)
1634-1639



Histochemical Investigation of Influence of Diabetogenic Zinc Binding Chemicals In Vitro on Human Pancreatic B-Cells and its Prevention

Gabit G. Meyramov, Vladimir I. Korchin, Fatima S. Abikenova, Altynay S. Shaybek, Aizhan G. Meyramova, Gulnaz T. Kartbayeva, Gulmira O. Zhuzbaeva, Olga L. Kovalenko (Author)
1392-1396



Topical Polydeoxyribonucleotide Loaded in Hydrogel Formulation for Wound Healing in Diabetic Rats

Mariya Dmitriyeva, Timur Suleimenov, Daulet Yessenbayev, Dulat Turebayev, Saltanat Urazova, Mirsaid Izimbergenov, Saken Kozhakhmetov, Talgat Omarov, Medet Toleubayev (Author)
198-206



Alterations of Liver Functions and Morphology in a Rat Model of Prediabetes After a Short-term Treatment of a High-fat High-glucose and Low-dose Streptozotocin

Desak Gede Budi Krisnamurti, Erni H. Purwaningsih, Tri Juli Edi Tarigan, Christian Marco Hadi Nugroho, Vivian Soetikno, Melva Louisa (Author)
668-674



Impact of High Aspartame and High Fructose Diet on Vascular Reactivity, Glucose Metabolism and Liver Structure in Diabetic Rats

Adel Shalaby, Marwa Al-Gholam, Safa Elfiky, Ghada Elgarawany (Author)
1433-1443



Effect of Secretome-Hypoxia Mesenchymal Stem Cells on Regulating SOD and MMP-1 mRNA Expressions in Skin Hyperpigmentation Rats

Zukhiroh Zukhiroh, Agung Putra, Chodidjah Chodidjah, Titiek Sumarawati, Prasetyowati Subchan, Setyo Trisnadi, Nurul Hidayah, Nur Dina Amalina (Author)
1-7



Analysis of the Transcriptional Activity of Immune Response Genes in the Blood of Patients with Acute Urticaria

Alina Petruk, Iryna Kamyshna, Mariia Shkilna, Alexandr M. Kamyshnyi (Author)
383-389



Optimization of the Duration of the Administration of Mesenchymal Stem Cells Wharton's Jelly to the Level of Matrix Metalloproteinase-1 and Transforming Growth Factor-β in Osteoarthritis Rat Model

Endrinaldi Endrinaldi, Hirowati Ali, Tofrizal Tofrizal, Asterina Asterina, Elmatris Elmatris, Sisca Dwi Yarni (Author)
563-571



Immune Response (Serum Globulin) in BALB/c Mice after Hookworm Egg Protein Immunization as the Initial Stage of Developing Laboratory Diagnostics: An In Vivo Approach

Budi Santosa, Arista Kurnia Budi Fristiani, Edi Dharmana, Fitriani Nur Damayanti, Heru Santoso Wahito Nugroho (Author)
1164-1169



Pathophysiology

Leptin and Vascular Cell Adhesion Protein 1 as Physiological Biomarkers in Serum of Women Suffering from Rheumatoid Arthritis

Faris Kata, Saad W. Alsulaiti, Muneera M. Adlan (Author)
164-169



Wet Cupping's Effect on Nitric Oxide Levels in Hypertensive Patients

Sharlini Desfika, Muhammad Ichwan, Dedi Ardinata (Author)
214-219



Assessment of the Level of Protein C in Hospitalized Iraqi Patients with COVID-19 and its Correlation with Hematological and Inflammatory Markers

Hind Shaker Al-Mamoori, Majid Hameed Ahmed, Taha Yaseen Shammar Al-Nafie, Zaid Al-Attar (Author)
817-823



Nuclear Medicine

Psychiatric Symptoms in Oncological Patients at Nuclear Medicine Department

Huri Tilla İlce, Sezen Elhan Vargol, Hatice Halis, Esra Yazici (Author)
734-739



The Effect of Periapical Radiography X-Ray Radiation on the Number of Leukocytes in Mice (Mus musculus)

Yenny Salmah, Harun Achmad, Bayu Indra Sukmana, Ummi Wajdiyah, Nirwana Dachlan, Zia Nurul Zahbia, En Nadia, Try Diana Utamy (Author)
456-461



Pathology

The Role of Androgen Receptor Expression in Prostate Adenocarcinoma

Hermien Hermien, Husni Cangara, Upik A. Miskad, Andi Alfian Zainuddin, Abdul Azis, Djumadi Achmad, Mahmud Ghaznawie (Author)
1263-1267



Notch1-Jagged1 Signaling Pathway in Oral Squamous Cell Carcinoma: Relation to Tumor Recurrence and Patient Survival

Heba A. Elhendawy, Nashwa AL-Zaharani, Ziad Ehab, Nahed Soliman, Afaf T. Ibrahim (Author)
1417-1426



In Vitro Study of the Potential Role of Olive Oil Oleuropein in Modulating the 5-FU Cytotoxic Efficacy against the Tongue Squamous Cell Carcinoma

Mouna Abdullah, Mohamed I. Mourad , Mahmoud Fathy, Azza El-Sissi (Author)
1347-1354



Correspondence of Meningioma Orbital Grading and Clinicopathological Features among Indonesian Patients

Raudatul Janah, Lantip Rujito, Daniel Joko Wahyono (Author)
1525-1531



CK19 and OV6 Expressions in the Liver of 2-AAF/CCI4 Rat Model

Romy Arwinda, Isabella Kurnia Liem, Ayu Eka Fatril, Fanny Oktorina, Firda Asma'ul Husna, Ria Kodariah, Puspita Eka Wuyung (Author)

340-345



Stem Cell Marker Aldehyde Dehydrogenase 1A1 Expression in Triple-negative Breast Carcinoma

Marwa Abdel Nasser Mohamed, Badawia Bayoumi Ibrahim, Samar Abdel Monem El Sheikh, Mona Salah Abdel Magid (Author)

287-294



Histopathological Types of Papillary Thyroid Carcinoma: Clinicopathologic Study

Zainab Khalid Almukhtar (Author)

79-83



Tumoral and Stromal Pdl1 and Pdl2 Checkpoints Immunohistochemical Expression in Pancreatic Ductal Adenocarcinoma, a Promising Field Of Study

Lubna O. Abdel-Salam, Hala El Hanbuli, Dalia Nabil Abdelhafez (Author)

775-781



Breast Cancer Human Epidermal Growth Factor Receptor 2 mRNA Molecular Testing Compared to Immunohistochemistry with Correlation to Neoadjuvant Therapy Response

Mahmoud Behairy, Samia Mohamed Gabal, Mohamed Sherif Negm (Author)

352-356



Histological Effect of Gemcitabine on the Liver and Kidney of Male Rat with and without Melatonin

Rand Abdulateef Abdullah, H. Kh. Ismail, Abduljabbar Y. AL-Hubaity (Author)

1242-1248



Cutoff Value of the Numbers of Anaplastic Cytological Features Present in Fine-Needle Aspiration Biopsy of Bone Tumors to Predict Malignancy

Eviana Norahmawati, Nayla Rahmadiani, Alidha Rakhmani, Amanda Novia Regita (Author)

136-140

Clinicopathologic Characteristics of Gastroenteropancreatic Neuroendocrine Tumors: Experience of a National Referral Hospital in Indonesia

Marini Stephanie, Nur Rahadiani, Hasan Maulahela, Ridho Ardhi Syaiful, Diah Rini Handjari, Ening Krisnuhoni (Author)

101-107



The Effectiveness of Curcumin on Transforming Growth Factor-β and the Proportion of Liver Fibrosis in Deutschland Denken Yoken Mice with Common Bile Duct Ligation

Prathita Amanda, Erik Prabowo, Muflihatul Muniroh, Abdul Mughni Rozy, Neni Susilaningsih (Author)

1157-1163



Expression of Podoplanin in Hepatocellular Carcinoma in a Sample of Egyptian Population – Immunohistopathological Study

Samar Amer, Menna Nabil, Mohamed Negm (Author)

366-375



Exposure Time of Silica Dust and the Incidence of Oxidative Stress, Inflammation, and Fibrosis in Rat Lungs

I. Gusti Ngurah Bagus Artana, I. Gusti Ayu Artini, I. Gusti Kamasan Nyoman Arijana, Ida Bagus Ngurah Rai, Agung Wiwiek Indrayani (Author)

1378-1382



The Model of Acute Obstructive Pyelonephritis for Studying Bacterial Translocation of E. coli from Gastroenteric Tract

Yermek Turgunov, Kairat Shakeyev, Yerzhan Sharapatov, Alyona Lavrinenko, Evgeny Pronkin (Author)

232-235



Diagnostic Value of GATA3 and Uroplakin 3 in Differentiating Urothelial Carcinoma from Prostatic and Colorectal Carcinoma

Maha Salama, Dina A. Khairy (Author)

514-518



Expression of β-Catenin in Thyroid Neoplasms (Histopathological and Immunohistochemical Study)



Evaluation of Programmed Death Ligand-1 Immunohistochemical Expression and Tumor-Infiltrating Lymphocytes in Different Types of Endometrial Carcinoma

Ragaa A. Salem, Laila M. Nabegh, Riham M. Abu-Zeid, Nermine M. Abd Raboh, Mariam El-Rashedy (Author)

702-708



Rate of Epstein-Barr Virus in Gastric Adenocarcinoma in Egyptian Patients in View of the WHO Classification and Correlation with p16 Immunoreactivity

Safia Samir, Hend Okasha Ahmed, Tarek M. Diab, Amr Mostafa, Hesham A. Elmeligy, Amira Kamel, Heba Khalil (Author)

1218-1225



Profile of Histopathological Type and Molecular Subtypes of Mammary Cancer of DMBA-Induced Rat and its Relevancy to Human Breast Cancer

Ika Fidianingsih, Teguh Aryandono, Sitarina Widyarini, Sri Herwiyanti (Author)

71-78



Immunohistochemical Study of Cancer Stem Cell marker, Tight Junction Protein, and Lymphatic Density in Malignant Salivary Gland Tumors

Marwa Maghrabi, Doaa A. Farag, Marwa Shakweer, Mohamed Negm, Nadia A. El-Sissy (Author)

879-886



The Association between Lower Uterine Segment Involvement in Corpus Located Endometrioid Adenocarcinoma with the (International Federation of Gynecology and Obstetrics) Grade and Stage

Farah Hasan, Zina Hussein (Author)

1121-1125



Diagnostic Value of Nuclear Receptor Subfamily 4 Group A Member 3 in Salivary Gland Carcinomas

Asmaa S. Algharyani, Marwa M. Maghrabi, Samah K. Ezzat, Marwa M. Shakweer, Doaa Esmaeil (Author)

1082-1088



Mohamed Sherif Ismail, Amr Mousa Abdel Gawad Mousa, Mohammed Faisal Darwish, M. Mostafa Salem, Randa Said (Author)

1565-1573



The Correlation between Risk Factors and Epstein-Barr Virus Serum Antibody with Histopathological Typing of Nasopharyngeal Carcinoma

Awal Prasetyo, Udadi Sadhana, Dewi K. Paramita, Sofia Mubarika Haryana, Bambang Hariwiyanto, Soenarto Sastrowijoto, Totok Utoro (Author)

1359-1367



Effect of Andaliman (Zanthoxylum Acanthopodium) Fruit Extract on Anticancer Activity of HEPG2 Liver Cancer Cell Lines

Zaimah Z. Tala, Gontar Alamsyah Siregar (Author)

361-365



Intramucosal Calprotectin Expression in Inflammatory Bowel Disease (IBD) and Non-IBD Colorectal Inflammation

Ening Krisnuhoni, Diah Rini Handjari, Marini Stephanie, Lydia Kencana, Nur Rahadiani (Author)

872-878



Novel Correlations among the Histopathological Components of Oral Squamous Cell Carcinoma

Aween Auda Ablahad, Hashim Dawood Mousa, Jalal Ali Jalal (Author)

1538-1543



The Role of Maspin Expression as Diagnostic Tissue Marker in Pancreaticoduodenal Malignant Tumors and Benign Lesions

Yasmine Fathy Elesawry, Eman Khaled, Badawea Biomy, Samar Elsheikh, Dina El-Yasergy (Author)

1042-1050



An Immunohistochemical Assessment of Ki-67 and P53 Over-expression in Helicobacter pylori-positive Gastritis

Karam Turath Tawfeeq, Elaf Abdulwahhab Hamdi, Nadwa Subhi Al-Azzo (Author)

535-539



miRNA-155 as a Novel Target for Isoliquiritigenin to Induce Autophagy in Oral Squamous Cell Carcinoma

Loay Abdelatef Mohamed, Amr Helmy Mostafa El Bolok, Sherif Farouk Elgayar, Ahmed Nabel Fahmy (Author)
481-488



Building a Biobank Network for Health Research in Indonesia

Ery Kus Dwianingsih, Junaedy Yunus, Lutfan Lazuardi, Amirah Ellyza Wahdi, Aulia Fitri Rhamadianti, Florentina Linda, Sunandar Hariyanto, Jajah Fachiroh (Author)
1067-1073



Transforming Growth Factor Beta1 Expression in Cancer- Associated Fibroblasts of Urinary Bladder Cancer: Crucial Applications and Deep Insights

Noha Helmy Ghanem, Nafissa El-Badawy, Sahar Saad El Din, Iman Hewedi, Lobna Shash (Author)
1093-1098



Anticancer Potential of Hesperidin against HEP-2 Laryngeal Carcinoma Cell Line in Comparison to Doxorubicin

Sara Abd El Wahed, Nadia Fathy Hassabou, Mai Abdelhalim Hamouda (Author)
1300-1309



Analysis of Zinc and Copper Serum Levels in Premature Hair Graying at Young Age

Dwi Rita Anggraini, Lita Feriyawati, Mega Sari Sitorus, Siti Syarifah (Author)
283-286



Erythroblasts in the Vessels of the Placenta – An Independent Factor of Chronic Hypoxic Damage to the Fetus

Olga Kostyleva , Leila Stabayeva, Maida Tussupbekova, Irfan Mukhammad, Yevgeniy Kotov, Denis Kossitsyn, S. N. Zhuravlev (Author)
1151-1156



Comparison of Abbott ID NOW COVID-19 Rapid Molecular Assay to Allplex 2019-nCoV and VIASURE SARS-CoV-2 Detection in Nasal Swabs

Ghada Ismail, Dalia Abdelhamid, Rania Abdelhalim, Marwa Salah Mostafa, Hossam Abdelghaffar, Noha Alaa Eldin Fahim, Ahmed Elshafei, Nashwa Naguib (Author)
930-937



Prevalence of Catheter-related Bloodstream Infection and Distribution of Multidrug Resistance Microorganisms among the Hospitalized Patients

Oltiana Petri, Klotilda Vrenjo, Alda Angjeli, Erjona Abazaj, Blerta Kika, Andi Koraqi, Albana Daka (Author)
181-186



In Vitro Activity of Single and Combined Antibiotics against Carbapenem Resistant Enterobacteriaceae Clinical Isolates in Relation to their Resistance Genes

Inas El-Defrawy, Aisha Abu Aitta, Nevine Fam, Manar Khaled, Nadia Madany, Mervat El Damarawy, Doaa Gamal, Mohammed Amr Alkholy (Author)
1600-1607



The Antimicrobial Effectiveness of Chitosan and Polysaccharide of Durian Peel Extract against Mycobacterium tuberculosis Isolates

Yusup Subagio Sutanto, Agnes Sri Harti, Magdalena Sutanto, Nony Puspawati (Author)
326-333



The Effectiveness Antimicrobial of Polysaccharide Gel from Durian Peel Ethanol Extract and Chitosan Gel

Yusup Subagio Sutanto, Agnes Sri Harti, Nony Puspawati, Magdalena Sutanto (Author)
982-987



The Predictive Role of Vitamin D Deficiency in Urinary Tract Infection at Reproductive Age in Women

Mays Basil, Aalaa A. Chmagh, Mustafa S. Hassan (Author)
498-501



Surgical Site Infections in Post-Living Donor Liver Transplantation: Surveillance and Evaluation of Care Bundle Approach

Microbiology

Antimicrobial and Cytotoxic Activities Screening of Marine Invertebrate-Derived Fungi Extract from West Sumatera, Indonesia

Dwi Bakhtra, Yanwirasti Yanwirasti, Fatma Sri Wahyuni, Ibtisamatul Aminah, Dian Handayani (Author)
1427-1432



Microorganism Spectrum and Its Sensitivity Pattern at Intensive Care Unit of a Secondary Care Teaching Hospital in Tangerang, Indonesia

Jeanette Tandiono, Elizabeth Marcella, Michaela Kemuning Pusung, Cucunawangsih Cucunawangsih (Author)
761-766



Genotyping of Probiotic Lactobacilli in Nigerian Fermented Condiments for Improved Food Safety

Yemisi Obafemi, Solomon Oranusi, Ajanaku Kolawole Oluseyi, Paul Akinduti (Author)
623-633



Inhibition of Microencapsulated Liquid Smoke on the Foodborne Pathogens and Histamine-Forming Bacterias’ Growth in Tuna Loin Sashimi

Inhibition of Liquid Smoke Microencapsulation

Henny Adeleida Dien, Roike Iwan Montolalu, Feny Mentang, Siegfried Berhimpon, Fahrul Nurkolis (Author)
1200-1206



Antibacterial Effect of Pre-constructed 3D Bone Scaffolds before and after Modification with Propolis

Mai Hesham, Hisham Elshishtawy, Sherihan El Kady, Dina Wahied (Author)
295-300



Role of Antibodies against SARS-COV-2 in the Detection of Corona Virus, its Transmissibility and Immunological Status Determination among Different Population in Babylon Province

Dalia Al-Saray, Furqan Mohammed Al-Asady, Tuqa Tuhair (Author)
644-649



Mona Wassef, Reham H. A. Yousef, Marwa Mahmoud Hussein, Mostafa A. El-Shazly, Doaa M. Ghaith (Author)
1411-1416



The Antifungal and Antibacterial Effect of Citrullus Colocynthis: In Vitro Study

Elahe Tahmasebi, Mohsen Yazdanian, Hamid Tebyaniyan, Armin Souidi, Reza Ranjbar, Mehrdad Moosazadeh Moghaddam, Majid Balaei-Kahnemoei, Somayeh Khoramian Tusi, Mahsima Tayefi Nasrabadi, Mohammad Taghi Vatandoust (Author)
1585-1591



Comparative Evaluation of Different SARS-CoV-2 Rapid Point-of-Care Antigen Tests with SARS-CoV-2 PCR for Diagnosis of COVID-19

Ghada Ismail, Dalia H. Abdelhamid, Rania Abdel Halim, Marwa Salah Mostafa, Hossam Abdelghaffar, Noha Alaa Eldin Fahim, Ahmed Elshafei, Menna Asker, Nashwa Naguib Omar (Author)
1505-1511



The Occurrence of Tuberculosis Infection among Newly HIV Diagnosed Patient in Indonesia

Rengga Rusfa Gumilang, Dwi Wahyu Indriati, Diyantoro Diyantoro, Aliyah Siti Sundari (Author)
893-896



Antimicrobial Activity of Fejervarya Skin Secretions (Anura: Dicroglossidae) in West Sumatra, Indonesia

Wila Karlina, Djong Hon Tjong, Dewi Imelda Roesma, Feskaharni Alamsjah, Muhammad Syukri Fadil (Author)
1188-1192



Detection of Atypical Motile Staphylococcus aureus from Rain Floods

Yusra Agha, Ashwak Hazem Najim, Reem Ayad Talaat, Shababa Abdulatif Bahjat (Author)
1373-1377



Application of Fluorescent In Situ Hybridization for Quick Identification of Microorganisms from Positive Blood Cultures

Gergana Lengerova, Yordan Kalchev , Zoya Rachkovska, Ralitsa Raycheva , Michael Petrov, Marianna Murdjeva (Author)
650-655



Antimicrobial Potential of Grape Seed Extract and MTA: A Comparative Experimental Study

Huda Elgendi, Mai Hamdy (Author)
1139-1142



Escherichia coli Clonal Variability Based on Genetic Diversity Pattern with Enterobacterial Repetitive Intergenic Consensus-Polymerase Chain Reaction Methods for Traveler's Diarrhea Cases in Bali

I Dewa Made Sukrama, Komang Januarta Putra Pinatih, Made Agus Hendrayana, Burhannuddin Rasyid, Ni Luh Putu Harta Wedari (Author)

752-760



TORCH, Anti-cardiolepin, and Anti-phospholipids in Women with Repeated Miscarriage in Mosul City

Karam A. Aldabbagh, Mohammed KJ. Alnori , Khalid W. Almola (Author)
971-976



Antibacterial Activity of Lemon Basil (Ocimum citriodorum) and Key Lime (Citrus aurantifolia S.) Extract Combination on Streptococcus mutants

Retno Dwi Sari, Junaidi Junaidi, Karin Tika Fitria (Author)
1099-1103



Structural and Genetic Diversity of Entamoeba gingivalis Trophozoites Isolated from Diseased and Healthy Periodontal Sites

Marwa A. Elmallawany, Marwa Ahmed EL-Dardiry, Reham K. Nahnoush, Mohamed Akmal, Adam A. Afife, Mohamed S. Badr (Author)

661-667



Molecular Characteristic of Dengue Virus against its Outbreak response of Red Sea State, Eastern Sudan - 2020

Israa Abbas, Anass Abbas, Manar Shalabi, Hatem Mohamed, Abdel-Moniem M. Arjabey, Asaad M. A. Babker, Al Fadhil A. Omer (Author)

228-231



Nur Rahma, Syahribulan Syahribulan, Arini Ratnasari, Sri Nur Rahmi Nur, Mila Karmila, Risma Malasari, Hajar Hasan, Isra Wahid (Author)

302-314



Large-scale Social Restrictions and Public Community Activity Restriction Legal Policy to Decrease COVID-19 Infections Effectivity to Handling COVID-19 Pandemic

Arief Budiono, Ayesha Hendriana Ngestiningrum, Siti Nurani, Rizka Rizka, Nunik Nurhayati, Siska Diana Sari, Fauzan Muhammadiyah, Rangga Jayanuarto (Author)

176-180



Time Trends of Epidemiology of Hemorrhagic Stroke among Urban Population in Kazakhstan

Yevgeniy Zhukov, Yermek Kavtaevich Kavtaevich Dyussembekov, Altyn Aringazina, Rauan Kasteý , Kuanysh Nikatov, Arimantas Tamasauskas, Ruslan Kulmanbetov, Anar Tursynbekova, Ydyrys Almbabayev (Author)

402-408



Pharmacology

Daphnoretin from Carthamus tinctorius as a Potential Inflammatory Inhibitor in COVID-19 by Binding to Toll-like Receptor-4: An in silico Molecular Docking Study

Lismayana Hansur, Melva Louisa, Puspita Eka Wuyung, Fadilah Fadilah (Author)
220-227



The Effectiveness of Rome Beauty Apple Peel Extract (Malus sylvestris Mill) on the Growth of Salmonella Typhi

Herry Darsim Gaffar, Yuliono Trika Nur Hasan, Nike Aprilia (Author)
848-853



Dapagliflozin Protection against Myocardial Ischemia by Modulating Sodium-glucose Transporter 2 Inhibitor, Silent Information Regulator 1, and Fatty Acid Synthase Expressions

Eman Sweed, Dina Sweed, Nader Galal, Huda Ibrahim Abd-Elhafiz (Author)
1544-1554



Olive Polyphenol as Neuroprotective in Chronic Cervical Myelopathy Rabbit Model

Management and Prevention of Nosocomial Urinary Tract Infections

Rudina Pirushi, Denisa Bego (Veseli), Zamira Imeraj (Author)
1334-1337



Antibacterial Activity of Gallic Acid from the Leaves of Altingia excelsa Noronha to Enterococcus faecalis

Risyandi Anwar, Puspita Hajardhini (Author)
1-6



Holothurin Compound from Sea Cucumber (Holothuria sp.) as Antifungal Alternative against Candida Infections

Sri Handayani, Nurdiana Nurdiana, Sri Winarsih, Agustina Tri Endharti (Author)
470-474



Efficacy of a Non-addictive Nasal Irrigation Based on Sea Salt Enriched with Natural Enzymes among Patients with Sinusitis: An In Vivo, Randomized, Controlled Trial

Riccardo Nocini, Michele Di Cosola , Angela Pia Cazzolla, Stefania Cantore, Francesca Castellaneta, Michele Covelli (Author)

153-157



Hematology Parameter Based on Tubex TF® Color Scale Result in Typhoid Fever Patients

Enny Nugraheni, Agus Syahrurachman, Beti Dewi, Leonard Nainggolan, Evy Suryani Arodes, Mulyadi Mulyadi (Author)

1028-1032



Prevalence and Antibiotic Susceptibility of Proteus mirabilis Isolated from Clinical Specimens in the Zainoel Abidin General Hospital, Banda Aceh, Indonesia

Suhartono Suhartono, Wilda Mahdani, Khalizazia Khalizazia (Author)
1532-1537



Epidemiology

The Risk of Mosquito-borne Diseases Related to Mosquito Fauna Richness and Livestock Placements in South and West Sulawesi, Indonesia

Sabri Ibrahim, Iqbal Fahlevi Adeputra Nasution, Mahyu Danil, Wismaji Sadewo, Tri Widyawati, Putri Chairani Eyanoe, Ridha Dharmajaya, Kiking Ritarwan, Wibi Riawan, Michael Lumintang Loe, Tommy Rizky Hutagalung (Author)

988-996



A Metformin Pharmacogenetic Study of Patients with Type 2 Diabetes Mellitus and SLC22A1 Gene Mutation

Elly Usman, Yusticia Katar (Author)
273-277



Effects of the Ethanol Extracts of Ficus deltoidea leaves on the Reproductive Parameters in Male Mice

Rudy Nugroho, Retno Aryani, Hetty Manurung, Dwi Feby Anindita, Fitria Sari Nur Hidayati , Widha Prahasatika, Rudianto Rudianto (Author)

146-152



Dayak Onions (Eleutherine americana L Merr) Reduced Mesothelial Cell Detachment After Laparoscopy in Rats

Hery Poerwosusanta, Alfi Yasmina, Firli Rahmah Primula Dewi, Krist Nathania Benita, Angga Setya Budi, Nanda Setya Putri, Nur Ainun, Ghyna Fakhriah, Anisa Fitri, Adam Rahardyan Poerwosusanta, Elvira Esmeralda Poerwosusanta, Donny Aditia, Zairin Noor (Author)

1321-1329



Impact of Clinical Pharmacist Diabetes Clinic on the Improvement of Health Outcomes in Type 2 Diabetes Subjects

Nawal AlSubaie, Mohannad Alsallal, Sulaiman AlTwaijri, Ahmed AlOtaibi, Bandar AlHarbi, Mohammad AlEissa, Rana Alrashedi (Author)

887-892



The Effect of Liposomes Ethanol Extract of Tekelan Leaves (Chromolaena odorata L.) on the SOD and MDA Level in Streptozotocin-Nicotinamide-Induced Diabetic Rats

Sofia Rahmi, Rosidah Rosidah, Tri Widyawati, Sumaiyah Sumaiyah (Author)
1310-1314



The Effect of Topical Ozonated Aloe vera on VEGF Expression and Microvascular Density in Radiation Dermatitis

Yan Wisnu Prajoko, Davin Rizky Parulian Silalahi, Christina Hari Nawangsih Priharsanti, Tommy Supit (Author)
493-497



Commercial Hormone Replacement Therapy Jeopardized Proinflammatory Factors in Experimental Rat Models

Mohammed Ali, Isam H. Mahmood (Author)
977-981



New Cholesteryl Ester Transfer Protein from Indonesian Herbal Plants as Candidate Treatment of Cardiovascular Disease

Ratih Dewi Yudhani, Khariz Fahrurrozi, Dono Indarto (Author)
1624-1629



Effect of Standardised Extract Pegagan Embun (Hydrocotyle sibthorpioides Lam.) toward Natural Killer Cell and CD8 Cell Activities on White Male Mice Exposed to H5N1 Virus Antigen

Afriwardi Afriwardi, Fitratul Wahyuni, Elidahanum Husni, Aditya Alqamal Alianta, Yufri Aldi (Author)
334-339



The Effectivity of IC50 Test between Green Tea and Curcumin Extracts from Mt. Lawu as an Antioxidant for SOD and MDA Levels in a Cisplatin Rat Model

Novi Primadewi, Harijono Kariosentono, Ari Probandari, Budiyaniti Wiboworini (Author)
906-910



Primaquine-chitosan Nanoparticle Improves Drug Delivery to Liver Tissue in Rats

Melva Louisa, Putrya Hawa, Purwastyastuti Purwastyastuti, Etik Mardiyati, Hans-Joachim Freisleben (Author)
1278-1284



Preparation and Characterization of Sumatriptan Timed Delivery System Using Combination of Natural and Synthetic Polymers

Mina Shihab Al-anbagi, Nawal A. Rajab , Mohammed Abd-Alhussein Aljodah, Zaid Al-Attar (Author)
432-443

Long Term Efficacy of Generic Atorvastatin by a University Hospital Database

Panisa Manasirisuk, Nanthaphan Chainirun, Somsak Tiamkao, Sunee Lertsinudom, Kutcharin Phunikhom, Kittisak Sawanyawisuth (Author)
947-950



Evaluation of Antimicrobial and Proliferation of Fibroblast Cells Activities of Citrus Essential Oils

Suryati Syafri, Elidahanum Husni, Nurul Wafiqah, Fitrah Ramadhan, Sovia Ramadani, Dachriyanus Hamidi (Author)
1051-1057



Preparation and Characterization of Butterfly Pea (Clitoria ternatea L.) Nanoemulgel

Zulfiayu Sapiun, Prisca Safriani Wicita, Ananda Sefriyani Buloto, Vyani Kamba, Arlan K. Imran, Whyllies Agung Ajie Buana, Hartati Hartati, Yos Banne (Author)
585-589



Propolis Mitigates Rifampicin/Isoniazid-induced Lipid-redox and Metabolic Profile in an Experimental Animal Model of Oxidative Stress

Ahmed Abdulsallam, Imad A. Thanoon, Rwqaya S. Dawood, Abdulrahman I. Abduljabbar (Author)
965-970



In Vitro Antioxidant Activity and In Vivo Hepatoprotective Effects of Ethanolic Extracts from Wall-Broken Ganoderma Lucidum Spores

Nguyen Huu Lac Thuy, Vo Thi Diem, Trinh Thi Dieu Thuong, Tran Tuyet Anh, Truong Minh Nhut, Truong Van Dat, Huynh Ngoc Trinh (Author)
1450-1455



Clinical Outcome of Antiviral Therapy on COVID-19 Patients

Gestina Aliska, Andani Eka Putra, Ricvan Dana Nindrea, Widy Nur Utami, SM Rezvi (Author)
1058-1061



Phytochemical Analysis Both of Water and Ethanol Extract from Some Herbs Combinations, Nanoemulsion Formulation, and Antioxidant Effects

Sri Atun, Kartika R Pertiwi, Mahclisatul Qolbiah, Salsabila Safa (Author)
95-100



The Effect of Eurycoma longifolia Jack Tongkat Ali Hydrogel on Wound Contraction and Re-Epithelialization in In Vivo Excisional Wound Model

Maryam Riyadh Yaseen Al-Bayati, Ghasak G. Faisal, Azliana Abd Fuaat, Khairunisa Ahmad Affandi, Muhammad Adil Zainal Abidin (Author)
634-643



Drug Procurement Analysis of the Ten Biggest Diseases at the Barru District Public Health Center Using the ABC Method

Gemy Nastity Handayany, Syahrul Basri (Author)
854-859



Lisinopril Can Reduce Genotoxicity of L-Asparaginase in Bone Marrow Stem Cells

Muthana Ibrahim Maleek (Author)
1033-1037



Lemon Pepper Extract Improves Diabetic Nephropathy in Diabetic Rats

Linda Chiuman, Chrismis Novalinda Ginting, OK Yulizal (Author)
170-175



Ethnopharmacological Study of Medicinal Plants in the Rawamerta Region Karawang, West Java, Indonesia

Eni Nuraeni, Maulana Yusuf Alkandahri, Sri Mulyanthi Tanuwidjaja, Khuzaimah Nurul Fadhlilah, Gita Silpiani Kurnia, Dedeh Indah, Adam Permana, Arum Hasanah, Farid Ahmad, Dikdik Caesar Barkah, Siti Ningrum Ratna Ningsih, Asyri Khoerunnisa, Dyanita Irene Susilo Putri, Tria Alfina Damayanti, Dinda Aisyah, Farida Nur Aeni (Author)
1560-1564



A Post-Marketing Study of Pethidine in Indonesia: Safety Profile

Jarir At Thobari, Jonathan Haposan, Muhammad Nurwahidin, Lukman Ade Chandra, Asri Riswiyanti, Djayanti Sari, Yunita Widyastuti, Sudarwanti Sudarwanti, Nastia Hidayati, Rianiasa Karunia Dewi, Rita Purnamasari, Dyah Juliana Pudjiati (Author)
519-524



Determination of Sun Protection Factor Lotion of Pulau Stem Extract (Alstonia scholaris (L.) R.Br)

Zulfiayu Sapiun, Nur'airin Achmadi, Arlan K. Imran, Muindar Muindar, Whyllies Agung Ajie Buana, Mohamad Usman Nur, Hartati Hartati, Vyani Kamba, Nangsih Sulastri Slamet, Ysrafil Ysrafil, Yusnita Rifai (Author)
833-840



The Activity of Purple Sweet Potato Extract on Antituberculosis-Induced Liver Toxicity

I. Gusti Ayu Artini, Agung Wiwiek Indrayani, Gusti Ngurah Bagus Artana, Gusti Made Aman, Ni Wayan Sucindra Dewi (Author)
1017-1022



Antioxidant Associated Antihypertensive Performance of Purified Gambir (Uncaria gambir Roxb.) on Prednisone Salt-Induced Hypertensive Rats

Dita Permatasari, Puti Khairunnisa, Kania Rosyari, Fatma Sri Wahyuni, Yufri Aldi, Armenia Armenia (Author)
390-395



Antioxidant and Anti-inflammatory Activities of Extract Ethanol Curcuma zedoaria

Wenty Anggraeni, Chrismis Novalinda Ginting, Linda Chiuman, Sahna Ferdinand Ginting, Fiska Maya Wardhani (Author)
1126-1131



Lowering Cholesterol through Ethanol Extract and Nano-Symplesia of Takokak Fruit (Solanum torvum Swartz.): An In vivo Study

Meliani Sukmadewi Harahap, Baharuddin Baharuddin, Keumalahayati Keumalahayati, Lina Lina, Fatwa Imelda (Author)
488-492



Effect of Avocado (Persea Americana Mill.) Peel Extract on the Diabetic Male White Rats: Preclinical Study

Nurdin Rahman, I Made Tangkas, Aulia Rakhman, Sri Mulyani Sabang, Bohari Bohari (Author)
415-418



The Effects of Star Fruit (*Averrhoa carambola* Linn.) Extract on Body Mass Index, Fasting Blood Glucose, and Triglyceride Levels in Male Rats with Obesity and Type 2 Diabetes Mellitus

Yustika Sari , Dono Indarto, Brian Wasita (Author)
744-751



Analysis of the Implementation of Drug Inventory Control with the Always Better Control-Economic Order Quantity-Reorder Point-Safety Stock Method

Sri Lestari Ramadhani Nasution, Miftah Asthariq, Ermi Girsang (Author)
1397-1401



The Effect of Minocycline on MMP-9 Levels in Traumatic Brain Injury: An Experimental Study in Wistar Rats

Darren Perdana, Andi Ihwan, Andi Alfian Zainuddin, Andi Asadul Islam, Djoko Widodo, Nasrullah Nasrullah, Willy Adhimarta, Wahyudi Wahyudi, Robert Christeven, Muhammad Faruk (Author)
1630-1633



Renin-angiotensin System Blocking Antihypertensive Therapy Effect on Surrogate Glycemic and Lipid Markers in Metabolic Syndrome Patients

Adnan A. Zainal, Loay A. Alchalaby (Author)
1104-1115



Anti-aging Activity, In Silico Modeling and Molecular Docking from Sonneratia Caseolaris

Eka Siswanto Syamsul, Salman Umar, Fatma Sri Wahyuni, Ronny Martien, Dachriyanus Hamidi (Author)
1471-1477



Low-dose Indonesian Aloe vera Increases Viability and Migration of the Fibroblast: An In Vitro Study

Januar Rizqi, Akbar Satria Fitriawan (Author)
256-261



Determination of Total Phenolic Content, Analysis of Bioactive Compound Components, and Antioxidant Activity of Ethyl Acetate Seri (*Muntingia calabura* L.) Leaves from North Sumatera Province, Indonesia

Risanti Febrine Ropita Situmorang, Kasta Gurning, Vera Estefania Kaban, Mastiur Julianti Butar-Butar, Susi Amenta Beru Perangin-Angin (Author)



The Mangosteen Peel Ethyl Acetate Extract-based Cream Inhibits Ultraviolet-B Radiation-induced Hyperpigmentation in Guinea Pig Skin

Pasid Harlisa, Harijono Kariosentono, Bambang Purwanto, Paramasari Dirgahayu, Soetrisno Soetrisno, Brian Wasita, Iffan Alif, Agung Putra (Author)
1640-1648



Chartolepis intermedia Boiss. and Centaurea ruthenica Lam. – New Medicina Plants Containing Pharmacologically Active Compounds

Gaisha Mukhametzhanova, Gulzina Asanova, Gulimzhan S. Adekenova, Balzhan Medeubayeva, Anarkul Kishkentayeva, Sergazy Adekenov (Author)
56-64



The Activity of Combination of Ethanol Extract of *Artocarpus lacucha* Buch.-Ham and *Anredera cordifolia* Steenis Leaves to Increase Wound Healing Process on NIH-3T3 Cell Line

Nazliniwaty Nazliniwaty, Olivia Avriyanti Hanafiah, Dewi Pertiwi, Mahatir Muhammad, Denny Satria (Author)
807-811



Evaluation of Gastroprotective Effect from *Phaleria macrocarpa* Fruits Extract on Gastric Ulcer in Male Wistar Rats

Dadang Irfan Husori, Marianne Marianne, Nabila Deli Syafarina Lubis, Kurnia Lavinda Yusfa, Intan Farah Diba Angela (Author)
462-469



The Effect of Methanol Concentration on the Extraction of Moringa Leaf (*Moringa oleifera*) and Papaya Fruit (*Carica papaya*) on Elastase and Hyaluronidase Installing Activities

Nining Sugihartini, Mohamad Usman Nur, Sapto Yuliani (Author)
1463-1470



Phytochemical Profile and Pharmacological Activity of Vernonia amygdalina Delile Stem Bark Extracts Using Different Solvent Extraction

Muhammad Fauzan Lubis, Poppy Anjelisa Zaitun Hasibuan, Hafid Syahputra, Ririn Astyka, Intan Baruna (Author)
860-866



240-244



Cost-Effectiveness of Ticagrelor for Acute Coronary Disease to Prevent Cardiovascular Events in Three Hospitals in Indonesia

Jarir At Thobari, Lucia Krisdinarti, Dhite Nugroho, Jonathan Haposan, Isman Firdaus, Rr. Arum Ramadhyan Suryandani, Muhammad Munawar, Jimmy Agung (Author)
1211-1217



Effect of Different Solvent on Phytochemical Content, Tyrosinase Inhibition and Antioxidant Activities of Campolay (*Pouteria campechiana* kunth. [Baehni.]

Sani Nurlaela Fitriansyah, Rika Hartati, Irda Fidrianny (Author)
158-163



Antidiabetic Effect Test of Insulin Stem Extract (*Tithonia diversifolia*) Toward Streptozotocin-Induced Diabetic Rats (*Rattus Norvegicus*)

Suherman Suherman, Baharuddin Hamzah, Sri Hastuti V. Pulukadang, Sitti Rahmawati, Muhammad Fakhru Hardani, Ririen Hardani, Andi Saifah (Author)
1006-1010



Unused Parts of Jackfruit (*Artocarpus heterophyllus*): Prospective In Vitro Antioxidative Activity

Muhamad Insanu, Hegar Pramasatya, Anastasia Karina Buddhisuharto, Chrisanta Tarigan, Aliya Azkia Zahra, Ariranur Haniffadi, Nurma Sabila, Irda Fidrianny (Author)
1529-1536



Green Honey Deli Water Apple (*Syzygium aqueum* (Burm. f.) Alston “Madu Deli Hijau”): Evaluation of Antioxidant Activities and Phytochemical Content

Rika Hartati, Yasmine Widodo, Chrisanta Tarigan, Irda Fidrianny (Author)
1429-1435



Preparation and Physicochemical Characterizations of p-Methoxycinnamic acid – Succinic Acid Cocystal by Solvent Evaporation Technique

Melanny Ika Sulistyowaty, Dwi Setyawan, Retno Sari, Abhimata Paramanandana, Nofika Agung Maharani, Timbul Partogi Simorangkir (Author)
1444-1449

The Use of Panax Ginseng to Reduce the Cardiotoxicity of Doxorubicin and Study its Effect on Modulating Oxidative Stress, Inflammatory, and Apoptosis Pathways

Hany Akeel Al-Hussaniy, Hayder M. Al-Kuraishy , Abdul-Ghaffar A. Abdulameer (Author)
715-719



The Potential of Centella asiatica Herb and Cyperus rotundus L. Rhizomes Extract as a Chemoprevention Agent for Lung Cancer

Indrayanti Indrayanti, Titiek Hidayati, Arif B. Setyanto (Author)
1132-1138



Solid Dispersion of Tenoxicam – HPMC by Freeze-Drying: Solid State Properties, Dissolution Study, and Analgesic Activity in Mice

Salman Umar, Hendrizal Usman, Hulwa Salsabila, Erizal Zaini (Author)
800-806



Artocarpus altilis Extract Capsules Reduce Fasting Blood Glucose in Prediabetes

Junedi Sitorus, Veni Hadju, Nurhaedar Jafar, Ridwan Amiruddin, Aminuddin Syam, Trias Mahmudiono, Yulia Yusrini Djabir, Apik Indarty Moedjiono (Author)
315-320



Phytochemical and Antioxidant Profile: Cucumber Pulp and Leaves Extracts

Muhamad Insanu, Aliya Azkia Zahra, Nurma Sabila, Velina Silviani, Ariranur Haniffadli, Defri Rizaldy, Irda Fidrianny (Author)
616-622



Immunomodulatory Effects of Cermat Leaves (*Phyllanthus acidus* (L.) Skeels) Ethanol Extract on Normal Male Rats and Cyclophosphamide Induction

Dhea Nurfadhilah, Yuandani Yuandani, Poppy Anjelisa Zaitun Hasibuan (Author)
782-787



DPP-IV Inhibitory Activity of the Ethanolic Extract of Red Gedi Leaves *Abelmoschus manihot* L. Medic

Juliet Tangka, Elisabeth Natalia Barung, Diana Lyrawati, Djoko Soeatmadji, Nurdiana Nurdiana (Author)
207-213



Anxiolytic Activity of Ethanolic Extract of Three Species of Indonesian Lempuyang (Zingiber zumbet, Zingiber aromaticum, and Zingiber americans)

Widyastiw Widyastiw, Roseno (Author)

695-701



Investigation on the Expectorant Effect of Extracts from Primula veris L.

Svitlana Marchyshyn, Liudmyla Slobodianiuk, Liliia Budniak, Liubov Shostak, Oleg Gerush (Author)

1368-1372



Multicomponent Crystal of Trimethoprim and Citric Acid: Solid State Characterization and Dissolution Rate Studies

Salman Umar, Rido Farnandi, Hulwa Salsabila, Erizal Zaini (Author)

141-145



Isolation of Caffeine from Scurrula ferruginea Jack Danser (Coffee Parasite) as a Sunscreen in Lotion Formula

Iswani Marzuki, Rosnani Nasution, Muhammad Bahi, Marianne Marianne (Author)

599-608



Antioxidant Activity of Laportea decumana (Roxb) Wedd Ethanol and n-Hexane Extracts

Abdul Thalib, Rina Masadah, Prihartono Prihartono, Firdaus Hamid, Muhammad Haidir, Hulan Hasan, Sudin Keliwawa, Irman Labulawa (Author)

590-594



Inhibitory Activity of α-Glucosidase by the Extract and Fraction of Marine Sponge-Derived Fungus Penicillium citrinum Xt6

Fitra Fauziah, Hirowati Ali, Cimi Ilmiawati, Dwi Bakhtra, Zilfia Agustin, Dian Handayani (Author)

1290-1293



Utilization of Functional Instant Porridge Formulated from Taro and Purple Sweet Potato as Anti-diabetic

Kurniawati Mappiratu, Amran Laga, Saifuddin Sirajuddin (Author)

Siti Aisyah Tanjung, Jansen Silalahi, Julia Reveny (Author)

725-733



Clinical Evalution for Effectiveness and Safety of Lidocaine and Bupivacaine Combination Epidural Infusion for the Management of Post-Total Hip Replacement Pain

Malath Alsaadi, Mohammad Ali Hasan, Jameel Mehssen, Adil Aliakbar (Author)

897-901



Indonesian Ciplukan Extract Inhibited TGF-β1/NF-κB Pathway in Experimental Psoriasis Mouse Models

Thianti Sylviningrum, Brian Wasita, Bambang Purwanto, Harijono Kariosentono, Soetrisno Soetrisno (Author)

938-946



Pharmacotherapy of Mental Illness in the Mental Health Centers in Kosovo During 2021

Fitim Alidema, Viktor Isjanovski, Arieta Hasani-Alidema, Behrije Halilaj-Vishi, Minire Alilaj-Beqiraj (Author)

1249-1256



Effect of Ramipril on Endothelin-1 Expression in Myocardial Tissue at Wistar Rats Induced Myocardial Infarction

Gestina Aliska, Yusticia Katar, Liganda Endo Mahata, Nisa Pratiwi, Vinta Nuranisyah (Author)

33-37



Determination of Total Flavonoid Level and Antioxidant Activity of Ethyl Acetate Fraction of Mangkokan Leaf Extract (Nothopanax scutellarium [Burm.f] Merr.)

Sri Lestari Ramadhani Nasution, Chrismis Novalinda Ginting, I Nyoman Ehrich Lister (Author)

1001-1005



Antidepressant Activity of Curcuma heyneana

Marianne Marianne, Poppy Anjelsa Hasibuan, Talha bin Emran, Sartika Ramadhayani, Rosnani Nasution, Reza Akbar Bastian (Author)

767-774



357-360



Potential Use of Some Indonesian Plants to Inhibits Angiotensin-converting Enzyme In Vitro

Ni Made Dwi Sandhiutami, Rika Sari Dewi, Fathya Rahma, Ferry Yang (Author)

1571-1576



Aspirin Protective Effect on Cyclophosphamide Induced Hematological Toxicity

Imad Hashim , Zaid Al-Attar, Saba Jasim Hamdan (Author)

1011-1016



Anticancer Potential of Cinnamon Bark Extract (Cinnamomum burmanii) with Cisplatin Combination against P-glycoprotein and Apoptotic Influx Biomarkers

Sarah Dina, M. Fidel Ganis Siregar, Nelva K. Jusuf, Poppy Anjelsa Hasibuan, Andrijono Andrijono, Adang Bachtiar, Sarma N. Lumbanraja, Iqbal Pahlevi Nasution (Author)

958-964



3D-Pharmacophore and Molecular Docking Studies for AcrAB-TolC Efflux Pump Potential Inhibitors from DrugBank and Traditional Chinese Medical Database

Thien-Vy Phan, Cao-Hoang-Hao Nguyen, Vu-Thuy-Vy Nguyen (Author)

1659-1667



The Study of Drug-Related Problems in Pediatric Inpatients Utilizing Antibiotics in Universitas Sumatera Utara Hospital Medan, Indonesia

Embun Suci Nasution, Rasmadin Muchtar, Rony Abdi Syahputra (Author)

187-191



Evaluation the Protective Effect of Withania somnifera Extract on the Level of Sex Hormone in Morphine Addicted Female Rats

Zaid Al-Nuaimi, Ali Jaafar Al-Baniwes (Author)

1330-1333



Wound Healing Activity of Nanoemulgel Containing Artocarpus lakoocha Roxb. Extract on Burns Model in Rat

Determination of the Chemical Composition and Antioxidant Activity of Artemisia vulgaris and Artemisia absinthium Growing in the Conditions of the Semey Region

Kulbanu K. Kabdulkarimova, Raushan Dinzhumanova, Rauza Olzhayeva, Aikunim A. Karimova, Saltanat Ye. Uzbekova, Ainash Orazalina, Altynai Dosbayeva, Saniya A. Lauyenova (Author)

1512-1519



The Effect of Topical and Oral Phenytoin on Increasing Wound Healing of Enterocutaneous Fistula in Wistar Rat

Victor Kurniawan, Hardian Hardian, Ignatius Riwanto (Author)

997-1000



Formulation of Orally Disintegrating Tablets of Captopril as Superdisintegrant using Corncob (Zea mays L.)

Gabena Indrayani Dalimunthe, Samran Samran, Najarul Susanto, Ridwanto Ridwanto, Kasta Gurning (Author)

278-282



Effects of Channa striata Extract on Albumin Serum and Neutrophil-to-Lymphocyte Ratio in Hyperglycemic Rats with Wound Injury: A Randomized Control Study

Nurpudji Astuti Taslim, Nur Fitriana, Ni Luh Eka Suprapti, Caroline Prisilia Marsella, Agussalim Bukhari, Haerani Rasyid, Aminuddin Aminuddin, Suryani As'ad, Andi Makbul Aman, Mardiana Madjid (Author)

450-455



Sports Medicine

Internal Brace Ligament Augmentation versus Anatomical Repair with Hamstrings of the ACL – A Clinical Data Comparison Study

Dritan Todhe, Rezart Çipi, Alban Hysenaj (Author)

1649-1652



Biological Markers of Training Level among Qualified Greco-Roman Wrestlers

Khoren Tonoyan, Lyubov Tarasova, Alexander Korzhenevskiy (Author)

12-15



The Consumption of Yellow Watermelon-plantain Juice before Anaerobic Exercise Improves Blood Glucose and Suppresses Oxidative Stress Formation in Rats

Afina Sulistyaning, Farida Farida, Hesti Sari (Author)
396-401



Effects of Tele-Exercise on Body Weight, Body Mass Index, and Fat Mass of Obese Employees

Mury Kuswari, Rimbawan Rimbawan, Hardinsyah Hardinsyah, Mira Dewi, Nazhif Gifari (Author)
579-584



Development of Physical Fitness Measurement on Senior High School Students

Ishak Aziz (Author)
595-598



Blood Lactate Decreased by Foam Rolling Post-Quarter Marathon

Setya Rahayu, Mohammad Arif Ali, Didit Prakosa Adi Nugroho, Gustiana Mega Anggita, Dewi M. Kurniawati, Etika Ratna Noer, Fidia Fibriana, Sofia Fernández Salazar, Ani Mazlina Dewi Mohamed (Author)
1062-1066



Studying the Optimal Time for Meals to Circadian Rhythms and Body Health (Application to Hospitality Establishments)

Mohammed Nader Shalaby, Mona Mostafa Abdo Sakoury, Sherin Hussien, Maaly Fayad Abdelghani (Author)
108-116



Slow-type Interval Training and Ethanol Extract of Sarang Semut (Myrmecodia pendans) can Improve the Early Lesions of Atherosclerosis in Type-2 Diabetes Mellitus Rats

Milahayati Daulay, Dharma Lindarto, Rosita Juwita Sembiring, Yetty Machrina, Ambrocious Purba, Delfitri Munir, Arlinda Sari Wahyuni, Zulham Yamamoto (Author)
1079-1081



The Influence of Ballistic Exercises on Growth, Somatomedin Hormones for Soccer Players

Wael Ramadan, Ahmed Elsayed, Mariam Abu Alim, Ellie Abdi, Medhat Kasem Abdel Razek (Author)
1023-1027



Forensic Medicine

Sexual Inviolability of Minors in Central Kazakhstan: A Forensic Medical Analysis

Saule Mussabekova, Xeniya Mkhitaryan (Author)
1226-1233



The Role of Forensic Science in Criminal Acts of Murder Cases in Indonesia

Al Halim, Eryln Indarti, Budi Santoso (Author)
951-958



Assessment of the Possibilities of Forensic Identification Population of Kazakhstan by Craniometric Indicators

Saule Mussabekova, Anastassiya Stoyan, Xeniya Mkhitaryan (Author)
685-694



Cardiology

Plasma Calcium and Phosphorus Levels and Cardiovascular Disease Risks in Egyptian Type 2 Diabetic Patients

Sahar Al-Okbi, Seham Sabry, Enas S. K. Al-Siedy, Shaimaa Elsayed (Author)
502-513



Neurology

Assessment of the Effectiveness of Facial Expression Exercises Stimulation Using Mirror Media in Increasing Facial Muscle Strength in Hemiparetic Stroke Patients

Martono Martono, Aulia Isnaeni, Hartono Hartono (Author)
2543-2548



[Make a Submission](#)

Co-publishing

Correlation of Delayed Onset Muscle Soreness and Inflammation Post-exercise Induced Muscle Damage

Soni Sulistyarto, Roy Irawan, Noortje Anita Kumaat, Nanda Rimawati (Author)
1688-1694



Optimization of the Adaptation Process during Physical Education Classes When Implementing an Individual Approach Based on the Autonomic Regulation Types of the Functions of the Cardiovascular System

Viktor Gorelik, Svetlana Filippova, Alena Podlubnaya, V. N. Vlasov, Gelshigan Populo, Natalia Nazarenko (Author)
609-615



Cardiovascular Disease Risk Profiles in Indonesian Athletes

Bayu Fandhi Achmad, Syahirul Alim, Happy Indah Kusumawati, Akbar Satria Fitriawan, Dedi Kurniawan, Raisa Farida Kafil (Author)
924-929



The Effect of Various Training on the Expression of the 5'amp-Activated Protein Kinase A2 and Glucose Transporter - 4 in Type-2 Diabetes Mellitus Rat

Rahmi Rahmi, Yetty Machrina, Zulham Yamamoto (Author)
1-5



Medical Informatics

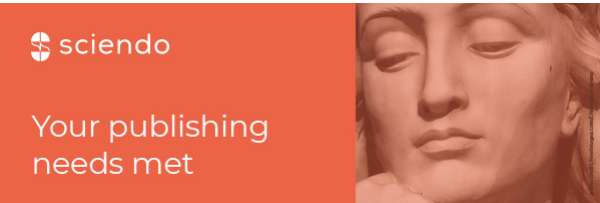
Racial and Sociodemographic Disparities in Telehealth Access and Utilization during the COVID-19 Pandemic

Mohammad Alkawaldeh, Amanda Lee, Nabeel Al-Yateem, Jacqueline Dias, Fatma Refaat, Syed Rahman, Muhammad Arsyad Subu (Author)
1668-1675



Smart-bed with Internet of Things for Pressure Ulcer

Taryudi Taryudi, Linlin Lindayani, Irma Darmawati (Author)
90-94



Submit your manuscript - Free of Charge

You can submit yor manuscript in our Open Access journals **free of charge**:

South East European Journal of Architecture and Design (SEEJAD)

South East European Journal of Cardiology (SEEJCA)

South East European Journal of Immunology (SEEJIM)

South East European Journal of Human Genetics (SEEJHG)

Information

For Readers

For Authors

For Librarians

Browse

Categories

A - Basic Sciences

B - Clinical Sciences

C - Case Reports

D - Dental Sciences

E - Public Health

F - Review Articles

G - Nursing

T - Thematic Issues



Peculiarities of Action of Catecholamines and their Metabolites in the Regulation of Cardiomyocyte Enzymes

Salavat Tapbergenov^{*}, Bakytbek Sovetov¹, Ynkar Kairkhanova¹, Zhanargul Smailova¹

Department of Biochemistry and Chemical Disciplines, Semey Medical University, Semey, **Kazakhstan**

Abstract

Edited by: Slavica Hristomanova-Mitkovska
Citation: Tapbergenov S, Sovetov B, Kairkhanova Y, Smailova Z. Peculiarities of Action of Catecholamines and their Metabolites in the Regulation of Cardiomyocyte Enzymes. Open Access Maced J Med Sci. 2022 Mar 10; 10(A):426-431. <https://doi.org/10.3889/oamjms.2022.8244>

Keywords: Catecholamines; Adrenaline; Mitochondrial and cytosolic enzymes of cardiomyocytes
*Correspondence: Salavat Tapbergenov, Department of Biochemistry and Chemical Disciplines, NCJSC "Semey Medical University", Semey, Kazakhstan.
E-mail: salavat-tap@mail.ru

Received: 12-Dec-2021

Revised: 05-Jan-2022

Accepted: 28-Feb-2022

Copyright: © 2022 Salavat Tapbergenov,

Bakytbek Sovetov, Ynkar Kairkhanova,

Zhanargul Smailova

Funding: This research did not receive any financial support
Competing Interests: The authors have declared that no competing interests exist

Open Access: This is an open-access article distributed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (CC BY-NC 4.0)

BACKGROUND: Myocardial ischemia is accompanied by a significant increase in adrenaline content in the heart. By its nature, sympathetic hyperactivation is accompanied by increased formation of products of enzymatic and nonenzymatic metabolism of adrenaline and its analogs, which can change the use of ATP by cells, change the activity of mitochondrial and cytosolic enzymes, contributing to disruption of bioenergetic adaptation, antioxidant defense system and levels of intercellular modulators such as AMP and adenosine.

AIM: The study objective was to explore the features of adrenaline and its analogs in the regulation of the activity of mitochondrial and cytoplasmic enzymes of cardiomyocytes.

METHODS: The experiment was carried out on 65 3-month-old male Wistar rats weighing 60–190 g. To study the effects of catecholamines and their metabolites in the regulation of mitochondrial and cytoplasmic enzymes activity of cardiomyocytes, experimental rats were put to death by intraperitoneal injection of 10% ketamine in an amount of 0.25 mg/100 g. Activity of mitochondrial succinate dehydrogenase, cytochrome c oxidase, mitochondrial DNP-activated ATPase, adenosine deaminase (AD), AMP deaminase (AMPD), glutathione reductase, and glutathione peroxidase were determined.

RESULTS: Dopamine has the greatest activating effect on cardiac mitochondrial ADH, adrenaline on CHO, and adrenochrome and adrenoxyl on ATPase. Isadrine and dopamine reduce cardiac AMPase activity. An activating effect on cardiac mitochondrial AMPD was found only in norepinephrine.

CONCLUSION: In cardiomyocytes, adrenaline, activates cytosolic enzymes of purine nucleotide metabolism AD and AMPD, as well as increases the level of lipid peroxidation (MDA and DC). This proves that adrenaline acting on adrenoreceptor mechanisms leads the body into a state of oxidative stress. Hormone-mediators of the sympatho-adrenal system adrenaline, dopamine, noradrenaline, isadrine, and catecholamine metabolites (adrenochrome and adrenoxyl), changes the activity of mitochondrial respiratory chain enzymes of cardiomyocytes, also regulate tissue respiration processes, putting mitochondria into the state of "loose" coupling of respiration and phosphorylation.

Introduction

Catecholamines such as dopamine (DA), norepinephrine (NE), and epinephrine (EPI) are important neurotransmitters and hormones with a variety of essential functions in the body. Besides other functions, catecholamines regulate cardiac action by local neuroendocrine secretion [1].

Already in the 1930's it has been hypothesized that catecholamines might be important regulators of the heart rate even before the inception of nerval control [2]. In embryonic chick hearts, catecholamines (NE and EPI) were detected as early as day 3, and L-DOPA and DA were already present from day 1 on [3]. Intrinsic cardiac adrenergic cells were later identified in rat [4], mouse [5], and human [6] heart tissue and primary cardiomyocyte isolates.

Currently, in cardiology, to develop adequate methods for the treatment of cardiovascular diseases, it is highly relevant to establish the mechanisms of disturbances in adaptation processes observed in case

of sympathetic hyperactivation. As many studies show, myocardial ischemia is accompanied by a significant increase in adrenaline content in the heart. By its nature, sympathetic hyperactivation is accompanied by increased formation of products of enzymatic and non-enzymatic metabolism of adrenaline and its analogs, which can change the use of ATP by cells, change the activity of mitochondrial and cytosolic enzymes, contributing to disruption of bioenergetic adaptation, antioxidant defense system and levels of intercellular modulators such as AMP and adenosine.

The control of metabolism and physiological activity of all body cells is carried out by means of a complexly organized specific multifunctional hormonal ensemble [7], [8]. In this regard, for a more meaningful understanding and use of catecholamines in clinical practice, the work set a goal: to study the features of adrenaline and its analogs in the regulation of the activity of mitochondrial and cytoplasmic enzymes of cardiomyocytes. A significant part of the data in this direction has been published by us earlier [9].



Single Nucleotide Polymorphism of Dectin-1 Gene Associates with Atopic Dermatitis in Children

Oleksandr Volosovets¹, Sergii Kryvopustov¹, Olena Mozyrska^{1*}, Sergii Goncharov², Anna Kupkina¹, Oksana Iemets¹, Victor Dosenko²

¹Department of Pediatrics, O. O. Bogomolets National Medical University, Kyiv, Ukraine; ²Department of General and Molecular Pathophysiology, O. O. Bogomolets Institute of Physiology of the National Academy of Sciences of Ukraine, Sector of Molecular Physiology, Kyiv Ukraine

Abstract

BACKGROUND: Atopic dermatitis (AD) is a chronic inflammatory skin disease with complex and multifactorial pathophysiology, involving elements of barrier dysfunction, alterations in cell-mediated immune responses, IgE sensitization, and environmental factors. This encourages the search for predictors of disease development among both genetic markers and environment.

AIM: The aim of the study was to examine if genetic factors of *Malassezia* recognition, or *Malassezia* colonization may be related to IgE sensitization or to severity of AD.

METHODS: The study included 106 patients with eczema and 103 healthy children. Specific IgE against *Malassezia* mix (m227) was analyzed in 51 patients using immunochemiluminescent method on the ImmunoCAP 100 (Thermo Fisher Scientific Inc., Phadia, Sweden). Genotyping for rs7309123 in Dectin-1 was performed using Real-time PCR. The level of colonization by *Malassezia* in the scale samples was determined by a real-time PCR assay.

RESULTS: Increased IgE to *Malassezia* spp. was observed in 29,4% of children with eczema. Higher *Malassezia* spp. – specific IgE titer positively correlated with severity of AD, age of onset, head-neck type of AD, and a higher total IgE. GG genotype rs7309123 Dectin-1 is significantly more often found in the patients than in the control group, but no correlation with IgE sensitization to *Malassezia* was found. *Malassezia restricta* and *M. globosa* were predominant in patients and controls, with some predominance of *M. globosa* over *M. restricta* among patients.

CONCLUSION: Sensitization to *Malassezia*, genetic markers in Dectin-1, and *Malassezia* colonization of the skin can be tools for studying the gene-environment interactions in the pathogenesis of AD.

Edited by: Katerina Spiroska
Citation: Volosovets O, Kryvopustov S, Mozyrska O, Goncharov S, Kupkina A, Iemets O, Dosenko V. Single Nucleotide Polymorphism of Dectin-1 Gene Associates with Atopic Dermatitis in Children. Open Access Maced J Med Sci. 2022 Aug 19; 10(A):1259-1263. <https://doi.org/10.3889/oamjms.2022.10513>
Keywords: SNP; Dectin-1; *Malassezia*; Atopic dermatitis; Children
***Correspondence:** Olena Mozyrska, O. O. Bogomolets National Medical University, Kyiv, Ukraine, Tel.: 067 901 81 08. E-mail: elenmoz85@gmail.com
Received: 25-Jun-2022
Revised: 20-Jul-2022
Accepted: 18-Aug-2022
Copyright: © 2022 Oleksandr Volosovets, Sergii Kryvopustov, Olena Mozyrska, Sergii Goncharov, Anna Kupkina, Oksana Iemets, Victor Dosenko
Funding: This research did not receive any financial support
Competing Interests: The authors have declared that no competing interests exist
Open Access: This is an open-access article distributed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (CC BY-NC 4.0)

Introduction

Atopic dermatitis (AD) is a chronic inflammatory skin disease with a typical characteristic of eczematous lesions. Fungi usually colonize on the skin of AD patients, but the role of these fungi in the pathogenesis of AD remains unclear. The opportunistic yeast *Malassezia* belongs to the normal cutaneous flora. *Malassezia* can also cause IgE-mediated sensitization in patients experiencing AD [1]. IgE, specific for *Malassezia* spp., was found in 5–27% of children [2], [3], [4] and 29–65% of adults with AD [5], [6], [7], [8].

C-type lectin receptor family members are specialized in sensing fungal microbes and linking fungal recognition to the initiation of T-cell responses, in particular those of the Th17 type. Several human studies support the idea that the interaction of Dectin-1 with its ligand promotes the Th2 environment either through instructing naive T-cells, followed by the release of Th2-type cytokines [9], or the release of chemokines (CCL20) associated with a set of Th2 cells [10]. SNP rs7309123 in Dectin-1 showed the strongest association with risk of invasive pulmonary aspergillosis infection [11].

The aim of this study was to identify novel clinical and genetic risk factors for severe AD, accompanied by sensibilization to *Malassezia* yeasts. We hypothesized that polymorphism rs7309123 in intron region of Dectin-1 could be associated with childhood eczema and sensibilization to *Malassezia* in children with AD. To test this hypothesis, we examined differences in the frequency of this SNP between healthy controls and children with eczema, and the association of polymorphism rs7309123 with sIgE to *Malassezia* yeasts.

Materials and Methods

The study included patients with AD (n = 106), aged 6 month–18 years (6 [3;10]) from the Department of Allergy at Kyiv City Children Clinical Hospital №2 and 103 children aged 12 month–18 years (6 [5;9]) without the allergic diseases. This study was approved by the Ethical Committee of the O. Bogomolets National Medical University, all patients/parents of the children gave an informed consent to participate.

Genetic Study of Chemokine Ligand 1 in Colorectal Carcinoma using Quantitative Real-Time PCR

Athraa Alshimerry*, Dalia Amer Khudhair, Roaa Salih Mahdi

Department of Pathology, College of Medicine, University of Babylon, Babylon, Iraq

Abstract

Edited by: Sinisa Stojanovski
Citation: Alshimerry A, Khudhair DA, Mahdi RS. Genetic Study of Chemokine Ligand 1 in Colorectal Carcinoma using Quantitative Real-Time PCR. Open-Access Maced J Med Sci. 2022 Mar 10; 10(A):656-660. <https://doi.org/10.3889/oamjms.2022.8645>
Keywords: Chemokine ligand 1; Colonic cancer; Quantitative real-time PCRs
*Correspondence: Athraa Alshimerry, Department of Pathology, College of Medicine, University of Babylon, Babylon, Iraq. E-mail: athraafalahhasan@gmail.com
Received: 15-Jan-2022
Revised: 15-Feb-2022
Accepted: 28-Feb-2022
Copyright: © 2022 Athraa Alshimerry, Dalia Amer Khudhair, Roaa Salih Mahdi
Funding: This research did not receive any financial support
Competing Interest: The authors have declared that no competing interest exists
Open Access: This is an open-access article distributed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (CC BY-NC 4.0)

BACKGROUND: Colon carcinoma is one of the prevalent carcinomas in the world and it is the third cause of cancer-related death in Western countries. The disease process is multifactorial; with etiology including inflammatory conditions of the digestive tract, environmental exposure, and genetic factors. Chemokine ligand 1 was shared in several mechanisms such as inflammatory process, chemoattraction, and others.

AIM: The present study was conducted to analyze the gene expression level of chemokine ligand 1 in colonic carcinoma and to deliberate its participation as genetic factors in its evolving and prognosis.

MATERIAL AND METHOD: CXCL1 was evaluated in formalin-fixed, paraffin-embedded tissue blocks that were retrospectively collected from 40 patients (eight women and 32 men) with colonic carcinoma and 40 patients of normal colonic tissues as control specimens using real-Time PCR.

RESULTS: The expression of CXCL1 was established as 12.4112-fold in carcinoma specimen about control tissue (1.3492). Chemokine ligand 1 genes were found to be overexpressed in advanced stage tumors and elderly patients.

CONCLUSION: Chemokine ligand 1 can be considered as a recent biomarker of colonic and colorectal carcinomas and a possible therapeutic target in the treatment of colonic carcinoma.

Introduction

Carcinoma of the colon is one of the most common malignancies and constitutes the third major reason for death due to cancer worldwide [1]. In addition, early diagnosis and molecular characterization are considered essential to decrease colonic carcinoma-related deaths [2]. The 5-year survival rate after curative surgery ranges between 40% and 60% [3]. Nowadays, there are determinate criteria both clinically and pathologically that are usually utilized in choosing the person who is suitable for adjuvant systemic therapy after surgery [4]. Therefore, the definition of prognostic markers in colonic carcinoma is very important in enhancing its prognosis [5]. Several factors either genetically (mutation of P53, KRAS, BRAF, and others genes) or environmentally are involved in the pathogenesis of colorectal carcinoma. The latter is largely dietary, particularly in consumption of a diet rich in fats and animal protein; because they influenced the microflora of the intestine and eventually on the chemical composition of the intraluminal content [3]. Among different factors, chemokines have a prevalent role in the pathogenesis of colonic carcinoma [6]. Chemokine is a small-sized protein manifested in different cells (leukocytes, epithelial

cells, endothelial cells, and fibroblasts), as well as tumor cells [7], [8]. Usually, chemokines are divided into four large categories: C, CC, CXC, and CX3C, depending on the location of their cysteine residues [9]. A previous study revealed that chemokine ligand 1 is overexpressed in some types of human cancer, such as hepatocellular, bladder, prostate, skin cancers, and colorectal carcinoma [10], [11], [12], [13], [14]. CXCL1 plays an axial role in the immune response of the host for bacterial killing by reactivating and recruiting neutrophils at the tissue site [15]. The aim of study is to determine the level of CXCL1 mRNA expression in colonic tumors and to study its correlation with clinic pathological parameters in Iraqi patients.

Materials and Methods

This retrospective study was approved ethically and was carried out in the Department of Pathology, College of Medicine – University of Babylon, Iraq, from January 2017 to August 2019 and the specimens were collected from some general hospitals and some private laboratories in Hila city.



Role of MicroRNAs in the Development of Chronic Liver Disease in Hepatitis Virus-Infected Egyptian Population

Marwa Hassan^{1*}, Eman El-Ahwany¹, Mohamed Elzallat¹, Ali Abdel Rahim², Hoda Abu-Taleb³, Yosry Abdelrahman², Moataz Hassanein²

¹Department of Immunology, Theodor Bilharz Research Institute, Giza, Egypt; ²Department of Hepato-Gastroenterology, Theodor Bilharz Research Institute, Giza, Egypt; ³Department of Medical Biostatistics and Environmental Research, Theodor Bilharz Research Institute, Giza, Egypt

Abstract

Edited by: Mirko Spiroski

Citation: Hassan M, El-Ahwany E, Elzallat M, Rahim AA, Abu-Taleb H, Abdelrahman Y, Hassanein M. Role of MicroRNAs in the Development of Chronic Liver Disease in Hepatitis Virus-Infected Egyptian Population. Open Access Maced J Med Sci. 2022 Oct 08; 10(A):1555-1559. <https://doi.org/10.3889/oamjms.2022.10902>

Keywords: Chronic liver disease; Hepatitis C Virus; Hepatocellular carcinoma; MicroRNAs

*Correspondence: Marwa Hassan, Department of Immunology, Theodor Bilharz Research Institute, Giza, Egypt. E-mail: marwahassan_777@yahoo.com

Received: 02-Sep-2022

Revised: 21-Sep-2022

Accepted: 28-Sep-2022

Copyright: © 2022 Marwa Hassan, Eman El-Ahwany, Mohamed Elzallat, Ali Abdel Rahim, Hoda Abu-Taleb, Yosry Abdelrahman, Moataz Hassanein

Funding: This work was kindly supported and funded by internal project No. 92 Diagnosis, Theodor Bilharz Research Institute, Giza, Egypt.

Competing Interests: The authors have declared that no competing interests exist

Open Access: This is an open-access article distributed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (CC BY-NC 4.0)

BACKGROUND: The identification of miRNAs that play a role in regulating the viral life cycle and its related liver diseases opens the door for the development of diagnostic biomarkers that can categorize patients at increased risk of developing end-stage liver disease.

AIM: This study investigated the role of miRNAs in the development of viral hepatitis-induced chronic liver disease (CLD) in the Egyptian population, as well as their potential as possible diagnostic biomarkers for chronic hepatitis virus infection.

MATERIALS AND METHODS: The study involved 100 CLD patients; 55 cases of hepatitis C virus (HCV) and 45 cases of non-viral hepatitis, in addition to 40 healthy controls. The expression of five miRNAs (miR-30, miR-122, miR-296, miR-351, and miR-431) was assessed using real-time PCR.

RESULTS: Serum levels of miR-30, miR-122, miR-296, miR-351, and miR-431 were significantly higher in all patients than in the control group ($p < 0.01$). Furthermore, they were significantly greater in viral hepatitis cases compared to the non-viral hepatitis group ($p < 0.01$). The sensitivities and specificities of miR-122a, miR-30, miR-296, miR-351, and miR-431 were (85.71% and 83.33%), (82.35% and 83.33%), (85.71% and 69.44%), (88.64% and 75.76%), and (87.80% and 65.79%), respectively.

CONCLUSIONS: miR-30, miR-122, miR-296, miR-351, and miR-431 play key roles in the development of CLD due to viral infection. Thus, they have the potential to be targeted for the early detection of chronic hepatitis virus infection and allow the exploration of a new frontier in the discovery of innovative therapies to combat chronic viral infection and its serious life-threatening complications, including liver cancer.

Introduction

Despite advances in the development of vaccines and antiviral agents, liver disorders have increasingly become one of the leading causes of death and illness worldwide. Almost 2 million people die per year as a result of major liver illnesses, such as hepatitis virus infections, cirrhosis, and liver cancer, accounting for 4% of all deaths worldwide [1].

One of the key reasons for end-stage liver disease is infection with viral hepatitis, including hepatitis C virus (HCV) and hepatitis B virus (HBV). Understanding the molecular pathways that mediate the chronicity of this infection and its sequelae are required for therapeutic intervention against a variety of life-threatening liver illnesses [2].

The replication of hepatitis viruses, inside the liver cells, differentially disturbs the expression of host miRNAs, which sequentially regulate the virus life cycle by directly targeting its genome and/or cellular signaling pathways, promoting the adaptation, and persistence

of virus infection [3]. Therefore, accumulating evidence reveals that miRNAs could be predictive and prognostic biomarkers, as well as therapeutic targets [4]. More in-depth research on miRNAs associated with and modulating viral infection is indispensable, and their functional role has yet to be clarified [5]. The identification of miRNAs with a prominent role in the viral life cycle and the resulting hepatic disease creates a potential for the development of diagnostic biomarkers that can classify and predict early patients who are at increased risk of developing the end-stage liver disease as a result of viral hepatitis infection [6]. This will also open up a new avenue for the development of novel medications to combat chronic hepatitis virus infection and its devastating repercussions, such as liver cancer.

In the present study, the expression of five miRNAs (miR-30, miR-122, miR-296, miR-351, and miR-431) was analyzed in cases of viral and non-viral induced chronic liver diseases (CLDs) in the Egyptian population to investigate the role of miRNAs and their potential as therapeutic targets against chronic hepatitis virus infection.